

Datasheet for ABIN7563899

## Patched 1 Protein (PTCH1) (AA 1-1434) (His tag)



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### Overview

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Quantity:                     | 1 mg                                             |
| Target:                       | Patched 1 (PTCH1)                                |
| Protein Characteristics:      | AA 1-1434                                        |
| Origin:                       | Mouse                                            |
| Source:                       | HEK-293 Cells                                    |
| Protein Type:                 | Recombinant                                      |
| Purification tag / Conjugate: | This Patched 1 protein is labelled with His tag. |
| Application:                  | Western Blotting (WB), SDS-PAGE (SDS)            |

### Product Details

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:  | Custom-made recombinat Ptch1 Protein expressed in mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sequence: | <p>MASAGNAAGA LGRQAGGGRR RRTGGPHRAA PDRDYLHRPS YCDAAFALEQ ISKGKATGRK</p> <p>APLWLRKFQ RLLFKLGCIY QKNCGKFLV GLLIFGAFV GLKAANLETN VEELWVEVGG</p> <p>RVSRELNYTR QKIGEEAMFN PQLMIQTPKE EGANVLTTEA LLQHLSALQ ASRVHVVMYN</p> <p>RQWKLEHLCY KSGELITETG YMDQIIEYLY PCLITPLDC FWEGAKLQSG TAYLLGKPPL</p> <p>RWTNFDPLEF LEELKKINYQ VDSWEMLNK AEVGHGYMDR PCLNPADPDC PATAPNKNST</p> <p>KPLDVALVLN GGCQGLSRKY MHWQEELIVG GTVKNATGKL VSAHALQTMF QLMTPKQMYE</p> <p>HFRGYDYVSH INWNEDRAAA ILEAWQRTYV EVVHQSAPN STQKVLPTTT TTLDDILKSF</p> <p>SDVSVIRVAS GYLLMLAYAC LTMLRWDCSK SQGAVGLAGV LLVALSVAAG LGLCSLIGIS</p> <p>FNAATTQVLP FLALGVGVDD VFLLAHAFSE TGQNKRIPE DRTGECLKRT GASVALTSIS</p> <p>NVTAFFMAAL IPIPALRAFS LQAAVVVFN FAMVLLIFPA ILSMDLYRRE DRRLDIFCCF</p> <p>TSPCVSRVIQ VEPQAYTEPH SNTRYSPPPP YTSHSFAHET HITMQSTVQL RTEYDPHTHV</p> |

YYTTAEPRSE ISVQPVTVTQ DNLSCQSPES TSSTRDLLSQ FSDSSLHCLE PPCTKWTLS  
FAEKHYAPFL LKPKAKVVI LLFLGLLGVS LYGTTRVRDG LDLTDIVPRE TREYDFIAAQ  
FKYFSFYNMY IVTQKADYPN IQHLLYDLHK SFSNVKYVML EENKQLPQMW LHYFRDWLQG  
LQDAFSDWE TGRIMPNNYK NGSDDGVLAY KLLVQTGSRD KPDISQLTK QRLVDADGII  
NPSAFYIYLT AWVSNDPVAY AASQANIRPH RPEWVHDKAD YMPETRLRIP AAEPYEAQF  
PFYLNGLRDT SDFVEAIEKV RVICNNYTSL GLSSYPNGYP FLFWEQYISL RHWLLLSISV  
VLACTFLVCA VFLNLPWTAG IIVMLALMT VELFGMMGLI GIKLSAVPVV ILIASVGIGV  
EFTVHVALAF LTAIGDKNHR AMLALEHMFA PVLDGAVSTL LGVLMLAGSE FDFIVRYFFA  
VLAILTVLGV LNGLVLLPVL LSFFGPCPEV SPANGLNRLP TPSPEPPPSV VRFVPPGHT  
NNGSDSSDSE YSSQTTVSGI SEELRQYEAQ QGAGGPAHQV IVEATENPVF ARSTVWHPDS  
RHQPPLTPRQ QPHLDGSGLS PGRQGQPPRR DPPREGLRPP PYRPRRDAFE ISTEKGSGPS  
NRDRSGPRGA RSHNPRNPTS TAMGSSVPSY CQPITTVTAS ASVTVAVHPP PGPGRNPRGG  
PCPGYESYPE TDHGVFEDPH VPFHVCERR DSKVEVIELQ DVECEERPWG SSSN **Sequence**  
**without tag. The proposed Purification-Tag is based on experiences with the expression**  
**system, a different complexity of the protein could make another tag necessary. In case you**  
**have a special request, please contact us.**

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Characteristics: | <p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p> |
| Purity:          | > 90 % as determined by Bis-Tris Page, Western Blot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Grade:           | custom-made                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Target Details

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|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | Patched 1 (PTCH1)                                                                                                                                                                                                                                                                                                                                                                                                     |
| Alternative Name: | Ptch1 ( <a href="#">PTCH1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                              |
| Background:       | Protein patched homolog 1 (PTC) (PTC1),FUNCTION: Acts as a receptor for sonic hedgehog (SHH), indian hedgehog (IHH) and desert hedgehog (DHH). Associates with the smoothened protein (SMO) to transduce the hedgehog's proteins signal. Seems to have a tumor suppressor function, as inactivation of this protein is probably a necessary, if not sufficient step for tumorigenesis. {ECO:0000269 PubMed:21537345}. |
| Molecular Weight: | 159.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                             |
| UniProt:          | <a href="#">Q61115</a>                                                                                                                                                                                                                                                                                                                                                                                                |
| Pathways:         | <a href="#">Hedgehog Signaling</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Tube Formation</a>                                                                                                                                                                                                                                                                                                        |

## Application Details

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions:      | For Research Use only                                                                                                                                                                                        |

## Handling

|                  |                                                                  |
|------------------|------------------------------------------------------------------|
| Format:          | Liquid                                                           |
| Buffer:          | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles.                               |
| Storage:         | -80 °C                                                           |
| Storage Comment: | Store at -80°C.                                                  |
| Expiry Date:     | 12 months                                                        |