

Datasheet for ABIN7564947

## SMURF1 Protein (AA 1-731) (His tag)



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### Overview

Quantity:	1 mg
Target:	SMURF1
Protein Characteristics:	AA 1-731
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMURF1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat Smurf1 Protein expressed in mammalian cells.
Sequence:	<p>MSNPGTRRNG SSIKIRLTVL CAKNLAKKDF FRLPDPFAKI VVDGSGQCHS TDTVKNTLDP</p> <p>KWNQHYDLYV GKTDSTITSV WNHKKIHKKQ GAGFLGCVRL LSNAISRLKD TGYQRDLCK</p> <p>LNPSTDAVR GQIVVSLQTR DRIGGGGSV DCRGLENNEG TVYEDSGPGR PLSCLMEEPA</p> <p>PYTDGTGAAA GGGNCRFVES PSQDQRLVQ RLRNPEVRGP LQTPQNRPHG HQSPELPEGY</p> <p>EQRTTVQGQV YFLHTQTGVS TWHDPRIPRD LNSVNCDELG PLPPGWEVRS TVSGRIYFVD</p> <p>HNNRTTQFTD PRLHHIMNHQ CQLKEPSQPL QLPSEGSVED EELPAQRYER DLVQKLKVL</p> <p>HELSLQQPQA GHCRIEVSRE EIFEESYRQI MKMRPKDLKK RLMVKFRGEE GLDYGGVARE</p> <p>WLYLLCHEML NPYYGFLFQYS TDNIYTLQIN PDSSINPDHL SYFHFVGRIM GLAVFHGHYI</p> <p>NGGFTVPFYK QLLGKPIQLS DLESVDPELH KSLVWILEND ITPVLDHTFC VEHNFAFRIL</p> <p>QHELKPNGRN VPVTEENKKE YVRLYVNWRF MRGIEAQFLA LQKGFNELIP QHLLKPFQK</p> <p>ELELIIGGLD KIDLNDWKS NTRLKHCVADS NIVRWFQAV ETFDEERRAR LLQFVTGSTR</p>

VPLQGFKALQ GSTGAAGPRL FTIHLIDANT DNLPKAHTCF NRIDIPPYES YEKLYEKLLT  
AVEETCGFAV E **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>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	SMURF1
Alternative Name:	Smurf1 ( <a href="#">SMURF1 Products</a> )
Background:	<p>E3 ubiquitin-protein ligase SMURF1 (EC 2.3.2.26) (HECT-type E3 ubiquitin transferase SMURF1) (SMAD ubiquitination regulatory factor 1) (SMAD-specific E3 ubiquitin-protein ligase 1),FUNCTION: E3 ubiquitin-protein ligase that acts as a negative regulator of BMP signaling pathway (By similarity). Mediates ubiquitination and degradation of SMAD1 and SMAD5, 2 receptor-regulated SMADs specific for the BMP pathway (By similarity). Promotes ubiquitination and subsequent proteasomal degradation of TRAF family members and RHOA (By similarity). Promotes ubiquitination and subsequent proteasomal degradation of MAVS (PubMed:23087404). Acts as an antagonist of TGF-beta signaling by ubiquitinating TGFBR1 and targeting it for degradation (By similarity). Plays a role in dendrite formation by</p>

### Target Details

	melanocytes (By similarity). {ECO:0000250 UniProtKB:Q9HCE7, ECO:0000269 PubMed:23087404}.
Molecular Weight:	83.4 kDa
UniProt:	<a href="#">Q9CUN6</a>
Pathways:	<a href="#">Regulation of Cell Size</a>

### Application Details

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