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Datasheet for ABIN3095952 KAP1 Protein (AA 2-835) (His tag)



Overview

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | KAP1 (TRIM28) |
| Protein Characteristics: | AA 2-835 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This KAP1 protein is labelled with His tag. |
| Application: | SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys) |

Product Details

| Sequence: | AASAAAASAA AASAASGSPG PGEGSAGGEK RSTAPSAAAS ASASAAASSP AGGGAEALEL |
|-----------|---|
| | LEHCGVCRER LRPEREPRLL PCLHSACSAC LGPAAPAAAN SSGDGGAAGD GTVVDCPVCK |
| | QQCFSKDIVE NYFMRDSGSK AATDAQDANQ CCTSCEDNAP ATSYCVECSE PLCETCVEAH |
| | QRVKYTKDHT VRSTGPAKSR DGERTVYCNV HKHEPLVLFC ESCDTLTCRD CQLNAHKDHQ |
| | YQFLEDAVRN QRKLLASLVK RLGDKHATLQ KSTKEVRSSI RQVSDVQKRV QVDVKMAILQ |
| | IMKELNKRGR VLVNDAQKVT EGQQERLERQ HWTMTKIQKH QEHILRFASW ALESDNNTAL |
| | LLSKKLIYFQ LHRALKMIVD PVEPHGEMKF QWDLNAWTKS AEAFGKIVAE RPGTNSTGPA |
| | PMAPPRAPGP LSKQGSGSSQ PMEVQEGYGF GSGDDPYSSA EPHVSGVKRS RSGEGEVSGL |
| | MRKVPRVSLE RLDLDLTADS QPPVFKVFPG STTEDYNLIV IERGAAAAAT GQPGTAPAGT |
| | PGAPPLAGMA IVKEEETEAA IGAPPTATEG PETKPVLMAL AEGPGAEGPR LASPSGSTSS |
| | GLEVVAPEGT SAPGGGPGTL DDSATICRVC QKPGDLVMCN QCEFCFHLDC HLPALQDVPG |
| | EEWSCSLCHV LPDLKEEDGS LSLDGADSTG VVAKLSPANQ RKCERVLLAL FCHEPCRPLH |

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| | QLATDSTFSL DQPGGTLDLT LIRARLQEKL SPPYSSPQEF AQDVGRMFKQ FNKLTEDKAD |
|------------------|--|
| | VQSIIGLQRF FETRMNEAFG DTKFSAVLVE PPPMSLPGAG LSSQELSGGP GDGP |
| | Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a |
| | special request, please contact us. |
| Characteristics: | Made in Germany - from design to production - by highly experienced protein experts. Human TRIM28 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. State-of-the-art algorithm used for plasmid design (Gene synthesis). |
| | This protein is a made to order protein and will be made for the first time for your order. Our |
| | experts in the lab will ensure that you receive a correctly folded protein. |
| | 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. |
| | In the unlikely event that the protein cannot be expressed or purified we do not charge anything |
| | (other companies might charge you for any performed steps in the expression process for |
| | custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression |
| | experiments or purification optimization). |
| | When you order this made-to-order protein you will only pay upon receival of the correctly |
| | folded protein. With no financial risk on your end you can rest assured that our experienced |
| | protein experts will do everything to make sure that you receive the protein you ordered. |
| | The concentration of our recombinant proteins is measured using the absorbance at 280nm. |
| | The protein's absorbance will be measured in several dilutions and is measured against its |
| | specific reference buffer. |
| | The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein. |
| Purification: | Two step purification of proteins expressed in baculovirus infected SF9 insect cells: |
| | In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot. |
| Purity: | >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. |
| Sterility: | 0.22 µm filtered |
| Endotoxin Level: | Protein is endotoxin free. |
| | |

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Product Details

Grade:

Crystallography grade

Target Details

| Target: | KAP1 (TRIM28) |
|-------------------|---|
| Alternative Name: | TRIM28 (TRIM28 Products) |
| Background: | Nuclear corepressor for KRAB domain-containing zinc finger proteins (KRAB-ZFPs). Mediates |
| | gene silencing by recruiting CHD3, a subunit of the nucleosome remodeling and deacetylation |
| | (NuRD) complex, and SETDB1 (which specifically methylates histone H3 at 'Lys-9' (H3K9me)) t |
| | the promoter regions of KRAB target genes. Enhances transcriptional repression by |
| | coordinating the increase in H3K9me, the decrease in histone H3 'Lys-9 and 'Lys-14' acetylation |
| | (H3K9ac and H3K14ac, respectively) and the disposition of HP1 proteins to silence gene |
| | expression. Recruitment of SETDB1 induces heterochromatinization. May play a role as a |
| | coactivator for CEBPB and NR3C1 in the transcriptional activation of ORM1. Also corepressor |
| | for ERBB4. Inhibits E2F1 activity by stimulating E2F1-HDAC1 complex formation and inhibiting |
| | E2F1 acetylation. May serve as a partial backup to prevent E2F1-mediated apoptosis in the |
| | absence of RB1. Important regulator of CDKN1A/p21(CIP1). Has E3 SUMO-protein ligase |
| | activity toward itself via its PHD-type zinc finger. Also specifically sumoylates IRF7, thereby |
| | inhibiting its transactivation activity. Ubiquitinates p53/TP53 leading to its proteosomal |
| | degradation, the function is enhanced by MAGEC2 and MAGEA2, and possibly MAGEA3 and |
| | MAGEA6. Mediates the nuclear localization of KOX1, ZNF268 and ZNF300 transcription factors |
| | In association with isoform 2 of ZFP90, is required for the transcriptional repressor activity of |
| | FOXP3 and the suppressive function of regulatory T-cells (Treg) (PubMed:23543754). Probably |
| | forms a corepressor complex required for activated KRAS-mediated promoter |
| | hypermethylation and transcriptional silencing of tumor suppressor genes (TSGs) or other |
| | tumor-related genes in colorectal cancer (CRC) cells (PubMed:24623306). Also required to |
| | maintain a transcriptionally repressive state of genes in undifferentiated embryonic stem cells |
| | (ESCs) (PubMed:24623306). Associates at promoter regions of tumor suppressor genes |
| | (TSGs) leading to their gene silencing (PubMed:24623306). {ECO:0000269 PubMed:10347202, |
| | EC0:0000269 PubMed:11959841, EC0:0000269 PubMed:15882967, |
| | EC0:0000269 PubMed:16107876, EC0:0000269 PubMed:16862143, |
| | EC0:0000269 PubMed:17079232, EC0:0000269 PubMed:17178852, |
| | EC0:0000269 PubMed:17704056, EC0:0000269 PubMed:17942393, |
| | ECO:0000269 PubMed:18060868, ECO:0000269 PubMed:18082607, |
| | EC0:0000269 PubMed:20424263, EC0:0000269 PubMed:20858735, |
| | EC0:0000269 PubMed:20864041, EC0:0000269 PubMed:21940674, |

| Target Details | |
|---------------------|---|
| | ECO:0000269 PubMed:23543754, ECO:0000269 PubMed:23665872, |
| | EC0:0000269 PubMed:24623306, EC0:0000269 PubMed:8769649, |
| | ECO:0000269 PubMed:9016654}. |
| Molecular Weight: | 89.4 kDa Including tag. |
| UniProt: | Q13263 |
| Pathways: | Hedgehog Signaling, Positive Regulation of Response to DNA Damage Stimulus |
| 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 gurantee |
| | though. |
| Comment: | In cases in which it is highly likely that the recombinant protein with the default tag will be |
| | insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to |
| | increase solubility. We will discuss all possible options with you in detail to assure that you |
| | receive your protein of interest. |
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Liquid |
| Buffer: | 100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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: | Unlimited (if stored properly) |

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