Datasheet for ABIN7563606

SIAH2 Protein (AA 1-325) (His tag)

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Overview

Quantity:	1 mg
Target:	SIAH2
Protein Characteristics:	AA 1-325
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIAH2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Siah2 Protein expressed in mammalien cells.
Sequence:	MSRPSSTGPS ANKPCSKQPP PPQTPHAPSP AAPPAAATIS AAGPGSSAVP AAAAVISGPG AGGGADPVSP QHHELTSLFE CPVCFDYVLP PILQCQAGHL VCNQCRQKLS CCPTCRGALT PSIRNLAMEK VASAVLFPCK YATTGCSLTL HHTEKPEHED ICEYRPYSCP CPGASCKWQG SLEAVMSHLM HAHKSITTLQ GEDIVFLATD INLPGAVDWV MMQSCFGHHF MLVLEKQEKY EGHQQFFAIV LLIGTRKQAE NFAYRLELNG NRRRLTWEAT PRSIHDGVAA AIMNSDCLVF DTAIAHLFAD NGNLGINVTI STCCQ **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:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts.

Product Details

	• Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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 try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	SIAH2
Alternative Name:	Siah2 (SIAH2 Products)
Background:	E3 ubiquitin-protein ligase SIAH2 (EC 2.3.2.27) (RING-type E3 ubiquitin transferase SIAH2) (Seven in absentia homolog 2) (Siah-2) (mSiah2),FUNCTION: E3 ubiquitin-protein ligase that mediates ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:11257006, PubMed:14645235, PubMed:14645526, PubMed:17003045, PubMed:9637679, PubMed:24809345, PubMed:26070566). E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates (PubMed:11257006, PubMed:14645235, PubMed:14645526, PubMed:17003045, PubMed:9637679, PubMed:26070566). Mediates E3 ubiquitin ligase activity either through direct binding to substrates or by functioning as the essential RING domain subunit of larger E3 complexes (PubMed:11257006, PubMed:14645235, PubMed:14645526, PubMed:17003045, PubMed:9637679, PubMed:26070566). Mediates ubiquitination and proteasomal degradation of DYRK2 in response to hypoxia. Promotes monoubiquitination of SNCA (By similarity). Triggers the ubiquitin-mediated degradation of many substrates, including proteins involved in transcription regulation (GPS2, POU2AF1, PML, NCOR1), a cell surface receptor (DCC), an antiapoptotic protein (BAG1), and a protein involved

Target Details

	in synaptic vesicle function in neurons (SYP) (PubMed:11257006, PubMed:14645235, PubMed:14645526, PubMed:17003045, PubMed:9637679, PubMed:26070566). It is thereby involved in apoptosis, tumor suppression, cell cycle, transcription and signaling processes (PubMed:11257006, PubMed:14645235, PubMed:14645526, PubMed:17003045, PubMed:9637679, PubMed:26070566). Has some overlapping function with SIAH1. Triggers the ubiquitin-mediated degradation of TRAF2, whereas SIAH1 does not. Regulates cellular clock function via ubiquitination of the circadian transcriptional repressors NR1D1 and NR1D2 leading to their proteasomal degradation (By similarity). Plays an important role in mediating the rhythmic degradation/clearance of NR1D1 and NR1D2 contributing to their circadian profile of protein abundance (PubMed:26392558). Mediates ubiquitination and degradation of EGLN2 and EGLN3 in response to the unfolded protein response (UPR), leading to their degradation and subsequent stabilization of ATF4 (PubMed:24809345). Also part of the Wnt signaling pathway in which it mediates the Wnt-induced ubiquitin-mediated proteasomal degradation of AXIN1 (By similarity). {ECO:0000250|UniProtKB:O43255, ECO:0000269|PubMed:11257006, ECO:0000269|PubMed:14645235, ECO:0000269|PubMed:14645526, ECO:0000269|PubMed:17003045, ECO:0000269|PubMed:24809345, ECO:0000269|PubMed:26070566, ECO:0000269|PubMed:26392558, ECO:0000269|PubMed:9637679}.
Molecular Weight:	34.8 kDa
UniProt:	Q06986

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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	12 months