Datasheet for ABIN7554847

OTUD4 Protein (AA 1-1114) (His tag)

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Overview

Quantity:	1 mg
Target:	OTUD4
Protein Characteristics:	AA 1-1114
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OTUD4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant OTUD4 Protein expressed in mammalian cells.
Sequence:	MEAAVGVPDG GDQGGAGPRE DATPMDAYLR KLGLYRKLVA KDGSCLFRAV AEQVLHSQSR HVEVRMACIH YLRENREKFE AFIEGSFEEY LKRLENPQEW VGQVEISALS LMYRKDFIIY REPNVSPSQV TENNFPEKVL LCFSNGNHYD IVYPIKYKES SAMCQSLLYE LLYEKVFKTD VSKIVMELDT LEVADEDNSE ISDSEDDSCK SKTAAAAADV NGFKPLSGNE QLKNNGNSTS LPLSRKVLKS LNPAVYRNVE YEIWLKSKQA QQKRDYSIAA GLQYEVGDKC QVRLDHNGKF LNADVQGIHS ENGPVLVEEL GKKHTSKNLK APPPESWNTV SGKKMKKPST SGQNFHSDVD YRGPKNPSKP IKAPSALPPR LQHPSGVRQH AFSSHSSGSQ SQKFSSEHKN LSRTPSQIIR KPDRERVEDF DHTSRESNYF GLSPEERREK QAIEESRLLY EIQNRDEQAF PALSSSSVNQ SASQSSNPCV QRKSSHVGDR KGSRRRMDTE ERKDKDSIHG HSQLDKRPEP STLENITDDK YATVSSPSKS KKLECPSPAE QKPAEHVSLS NPAPLLVSPE VHLTPAVPSL PATVPAWPSE PTTFGPTGVP APIPVLSVTQ TLTTGPDSAV SQAHLTPSPV PVSIQAVNQP LMPLPQTLSL YQDPLYPGFP CNEKGDRAIV PPYSLCQTGE DLPKDKNILR FFFNLGVKAY SCPMWAPHSY

Product Details

	LYPLHQAYLA ACRMYPKVPV PVYPHNPWFQ EAPAAQNESD CTCTDAHFPM QTEASVNGQM PQPEIGPPTF SSPLVIPPSQ VSESHGQLSY QADLESETPG QLLHADYEES LSGKNMFPQP SFGPNPFLGP VPIAPPFFPH VWYGYPFQGF IENPVMRQNI VLPSDEKGEL DLSLENLDLS KDCGSVSTVD EFPEARGEHV HSLPEASVSS KPDEGRTEQS SQTRKADTAL ASIPPVAEGK AHPPTQILNR ERETVPVELE PKRTIQSLKE KTEKVKDPKT AADVVSPGAN SVDSRVQRPK EESSEDENEV SNILRSGRSK QFYNQTYGSR KYKSDWGYSG RGGYQHVRSE ESWKGQPSRS RDEGYQYHRN VRGRPFRGDR RRSGMGDGHR GQHT **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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	OTUD4
Alternative Name:	OTUD4 (OTUD4 Products)
Background:	OTU domain-containing protein 4 (EC 3.4.19.12) (HIV-1-induced protein HIN-1),FUNCTION:

Target Details

	Deubiquitinase which hydrolyzes the isopeptide bond between the ubiquitin C-terminus and the lysine epsilon-amino group of the target protein (PubMed:23827681, PubMed:25944111, PubMed:29395066). May negatively regulate inflammatory and pathogen recognition signaling in innate immune response. Upon phosphorylation at Ser-202 and Ser-204 residues, via IL-1 receptor and Toll-like receptor signaling pathway, specifically deubiquitinates 'Lys-63'-polyubiquitinated MYD88 adapter protein triggering down-regulation of NF-kappa-B-dependent transcription of inflammatory mediators (PubMed:29395066). Independently of the catalytic activity, acts as a scaffold for alternative deubiquitinases to assemble specific deubiquitinase-substrate complexes. Associates with USP7 and USP9X deubiquitinases to stabilize alkylation repair enzyme ALKBH3, thereby promoting the repair of alkylated DNA lesions (PubMed:25944111). {ECO:0000269|PubMed:23827681, ECO:0000269|PubMed:25944111, ECO:0000269|PubMed:29395066}.
Molecular Weight:	124.0 kDa
UniProt:	Q01804

Application Details

Application Notes:	We expect the protein to work for functional studies. 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

