Datasheet for ABIN7564907

ADAR Protein (AA 1-1178) (His tag)

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Overview

Quantity:	1 mg
Target:	ADAR
Protein Characteristics:	AA 1-1178
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ADAR protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Adar Protein expressed in mammalien cells.
Sequence:	MSQGFRGPTG VFPHQTQSYL DPSHEHSKWR YPQPQGPESY PRSFQLQQIE FLKGRLPEAP LIGIQTQSLP PFLPGHWPRF PGPPAQDRQL EIWEFPRSVT LRNQGFHIGP PLPPPHSRGT PWRGADGLCS HFRELSISQS PEQKVLNRLE ELGEGKATTA HVLARELRIP KRDINRILYS LEKKGKLHRG RGKPPLWSLV PLSQAWTQPP GVVNPDSCIQ EFPRGEPGLD SEDGDPASDL EGPSEPLDMA EIKEKICDYL FNVSNSSALN LAKNIGLTKA RDVTSVLIDL ERQGDVYRQG ATPPIWYLTD KKRERLQMKR STHSAPAPTP TAVPEATRSP SFPACHPPPA GASSSVAASK RVENGQEPAI KHESRHEARP GPMRLRPHAY HNGPSRAGYV ASENGQWATD DIPDNLNSIH TAPGEFRAIM EMPSFYSPTL PRCSPYKKLT ECQLKNPVSG LLEYAQFTSQ TCDFNLIEQS GPSHEPRFKF QVVINGREFP PAEAGSKKVA KQDAAVKAMA ILLREAKAKD SGQPEDLSHC PMEEDSEKPA EAQAPSSSAT SLFSGKSPVT TLLECMHKLG NSCEFRLLSK EGPAHDPKFQ YCVAVGAQTF PPVSAPSKKV AKQMAAEEAM KALQEEAASS ADDQSGGANT DSLDESMAPN

Product Details

	KIRRIGELVR YLNTNPVGGL LEYARSHGFA AEFKLIDQSG PPHEPKFVYQ AKVGGRWFPA VCAHSKKQGK QDAADAALRV LIGESEKAEQ LGFAEVTPVT GASLRRTMLL LSRSPDAHPK TLPLSGSTFH DQIAMLSHRC FNALTNSFQP SLLGRKILAA IIMKRDPEDM GVVVSLGTGN RCVKGDSLSL KGETVNDCHA EIISRRGFIR FLYSELMKYN HHTAKNSIFE LARGGEKLQI KKTVSFHLYI STAPCGDGAL FDKSCSDRAV ESTESRHYPV FENPKQGKLR TKVENGEGTI PVESSDIVPT WDGIRLGERL RTMSCSDKIL RWNVLGLQGA LLTHFLQPVY LKSVTLGYLF SQGHLTRAIC CRVTRDGKAF EDGLRYPFIV NHPKVGRVSV YDSKRQSGKT KETSVNWCMA DGYDLEILDG TRGTVDGPGK ELSRVSKKNI FLQFKKLCSF RARRDLLQLS YGEAKKAARD YDLAKNYFKK SLRDMGYGNW ISKPQEEKNF YLCPVPND **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. • 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:	ADAR
Alternative Name:	Adar (ADAR Products)
Background:	Double-stranded RNA-specific adenosine deaminase (DRADA) (EC 3.5.4.37) (RNA adenosine

Target Details

	deaminase 1),FUNCTION: Catalyzes the hydrolytic deamination of adenosine to inosine in double-stranded RNA (dsRNA) referred to as A-to-I RNA editing. This may affect gene expression and function in a number of ways that include mRNA translation by changing codons and hence the amino acid sequence of proteins since the translational machinery read the inosine as a guanosine, pre-mRNA splicing by altering splice site recognition sequences, RNA stability by changing sequences involved in nuclease recognition, genetic stability in the case of RNA virus genomes by changing sequences during viral RNA replication, and RNA structure-dependent activities such as microRNA production or targeting or protein-RNA interactions. Can edit both viral and cellular RNAs and can edit RNAs at multiple sites (hyper-editing) or at specific sites (site-specific editing). Its cellular RNA substrates include: bladder cancer-associated protein (BLCAP), neurotransmitter receptors for glutamate (GRIA2) and serotonin (HTR2C) and GABA receptor (GABRA3). Site-specific RNA editing of transcripts encoding these proteins results in amino acid substitutions which consequently alters their functional activities. Exhibits low-level editing at the GRIA2 Q/R site, but edits efficiently at the R/G site and HOTSPOT1. Does not affect polyomavirus replication but provides protection against virus-induced cytopathic effects. Essential for embryonic development and cell survival and plays a critical role in the maintenance of hematopoietic stem cells. {ECO:0000269|PubMed:15556947, ECO:0000269|PubMed:17079286, ECO:0000269|PubMed:17369310}.
Molecular Weight:	130.4 kDa
UniProt:	Q99MU3
Pathways:	Protein targeting to Nucleus

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.

Handling

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