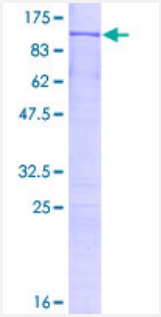
Full-Length

ADARB1 (Human) Recombinant Protein (P01)

Catalog # H00000104-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ADARB1 full-length ORF (NP_056648.1, 1 a.a. - 741 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MDIEDEENMSSSSTDVKENRNLDNVSPKDGSTPGPGEGSQLSNGGGGGPGRKRPLEEGSNGH SKYRLKKRRKTPGPVLPKNALMQLNEIKPGLQYTLLSQTGPVHAPLFVMSVEVNGQVFEGSGPTK KKAKLHAAEKALRSFVQFPNASEAHLAMGRTLSVNTDFTSDQADFPDTLFNGFETPDKAEPPFY VGSNGDDSFSSSGDLSLSASPVPASLAQPPLPVLPPFPPPSGKNPVMILNELRPGLKYDFLSES GESHAKSFVMSVVVDGQFFEGSGRNKKLAKARAAQSALAAIFNLHLDQTPSRQPIPSEGLQLHL PQVLADAVSRLVLGKFGDLTDNFSSPHARRKVLAGVVMTTGTDVKDAKVISVSTGTKCINGEYMS DRGLALNDCHAEIISRRSLLRFLYTQLELYLNNKDDQKRSIFQKSERGGFRLKENVQFHLYISTSPC GDARIFSPHEPILEGSRSYTQAGVQWCNHGSLQPRPPGLLSDPSTSTFQGAGTTEPADRHPNRK ARGQLRTKIESGEGTIPVRSNASIQTWDGVLQGERLLTMSCSDKIARWNVVGIQGSLLSIFVEPIYFS SIILGSLYHGDHLSRAMYQRISNIEDLPPLYTLNKPLLSGISNAEARQPGKAPNFSVNWTVGDSAIEVI NATTGKDELGRASRLCKHALYCRWMRVHGKVPSHLLRSKITKPNVYHESKLAAKEYQAAKARLFT AFIKAGLGAWVEKPTEQDQFSLTP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	107.2
Interspecies Antigen Sequence	Mouse (90); Rat (90)
Preparation Method	*in vitro* wheat germ expression system

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ADARB1

Entrez GeneID	104
GeneBank Accession#	NM_015833.2
Protein Accession#	NP_056648.1
Gene Name	ADARB1
Gene Alias	ADAR2, ADAR2a, ADAR2a-L1, ADAR2a-L2, ADAR2a-L3, ADAR2b, ADAR2c, ADAR2d, ADAR2g, DRABA2, DRADA2, RED1
Gene Description	adenosine deaminase, RNA-specific, B1 (RED1 homolog rat)
Omim ID	601218
Gene Ontology	Hyperlink
Gene Summary	This gene encodes the enzyme responsible for pre-mRNA editing of the glutamate receptor subunit B by site-specific deamination of adenosines. Studies in rat found that this enzyme acted on its own pre-mRNA molecules to convert an AA dinucleotide to an AI dinucleotide which resulted in a new splice site. Alternative splicing of this gene results in several transcript variants, some of which have been characterized by the presence or absence of an ALU cassette insert and a short or long C-terminal region. [provided by RefSeq

Other Designations	ADAR2c ADAR2d|OTTHUMP00000115341|OTTHUMP00000115342|RNA editase|RNA editing deaminase 1|RNA-specific adenosine deaminase B1|adenosine deaminase acting on RNA type 2a|adenosine deaminase acting on RNA type2d|adenosine deaminase acting on RNA type2g|adenosin

Publication Reference

- AKT-dependent phosphorylation of the adenosine deaminases ADAR-1 and -2 inhibits deaminase activity.

  Bavelloni A, Focaccia E, Piazzi M, Raffini M, Cesarini V, Tomaselli S, Orsini A, Ratti S, Faenza I, Cocco L, Gallo A, Blalock WL.

  FASEB Journal 2019 Aug; 33(8):9044.

  Application: Func, KA, Recombinant protein

- TDP-43 pathology in sporadic ALS occurs in motor neurons lacking the RNA editing enzyme ADAR2.

  Aizawa H, Sawada J, Hideyama T, Yamashita T, Katayama T, Hasebe N, Kimura T, Yahara O, Kwak S.

  Acta Neuropathologica 2010 Jul; 120(1):75.

  Application: IHC, RED1 antibody

Disease

- Tobacco Use Disorder