

Recombinant Mouse Adprhl2 Protein, MYC/DDK-tagged

Cat. No. Adprhl2-022M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse ADP-ribosylhydrolase like 2 (Adprhl2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	ADP-ribose glycohydrolase that preferentially hydrolyzes the scissile alpha-O-linkage attached to the anomeric C1" position of ADP-ribose and acts on different substrates, such as proteins ADP-ribosylated on serine, free poly(ADP-ribose) and O-acetyl-ADP-D-ribose. Specifically acts as a serine mono-ADP-ribosylhydrolase by mediating the removal of mono-ADP-ribose attached to serine residues on proteins, thereby playing a key role in DNA damage response. Serine ADP-ribosylation of proteins constitutes the primary form of ADP-ribosylation of proteins in response to DNA damage. Does not hydrolyze ADP-ribosyl-arginine, -cysteine, -diphthamide, or -asparagine bonds. Also able to degrade protein free poly(ADP-ribose), which is synthesized in response to DNA damage: free poly(ADP-ribose) acts as a potent cell death signal and its degradation by ADPRHL2 protects cells from poly(ADP-ribose)-dependent cell death, a process named parthanatos. Also hydrolyzes free poly(ADP-ribose) in mitochondria. Specifically digests O-acetyl-ADP-D-ribose, a product of deacetylation reactions catalyzed by sirtuins. Specifically degrades 1"-O-acetyl-ADP-D-ribose isomer, rather than 2"-O-acetyl-ADP-D-ribose or 3"-O-acetyl-ADP-D-ribose isomers.
Molecular Mass	39.9 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>80%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Adprhl2 ADP-ribosylhydrolase like 2 [Mus musculus (house mouse)]
Official Symbol	Adprhl2
Synonyms	Adprhl2; ADP-ribosylhydrolase like 2; Arh3; Adprs; AI836109; ADP-ribose glycohydrolase ARH3; ADP-ribosylhydrolase 2; ADP-ribosylhydrolase 3; O-acetyl-ADP-ribose deacetylase ARH3; [Protein ADP-ribosylarginine] hydrolase-like protein 2; [Protein ADP-ribosylserine] hydrolase; ecto ADP-ribosylhydrolase; poly(ADP-ribose) glycohydrolase ARH3; EC 3.2.1.143
Gene ID	100206
mRNA Refseq	NM_133883
Protein Refseq	NP_598644
UniProt ID	Q8CG72

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA