ARH3 mouse mAb

Catalog No	YP-mAb-18067
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	ADPRHL2 ARH3
Immunogen	Synthesized peptide derived from human ARH3
Specificity	This antibody detects endogenous levels of ARH3 at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ADP-ribosylhydrolase 3;ADP-ribose glycohydrolase ARH3;ADPRHL2;ADPRHL 2;[Protein ADP-ribosylserine] hydrolase;ADPRS;ADPRHL2 ARH3;Poly(ADP-ribose) glycohydrolase ARH3 (EC 3.2.1.143) (ADP-ribosylhydrolase 3) ([Protein ADP-ribosylarginine] hydrolase-like protein 2)
Observed Band	39 kDa
Calculated Molecular Weight	363 aa, 39 kDa
Cell Pathway	Nucleus . Cytoplasm . Chromosome . Mitochondrion matrix . Recruited to DNA lesion regions following DNA damage; ADP-D-ribose-recognition is required for recruitment to DNA damage sites. .
Tissue Specificity	Ubiquitous (PubMed:16278211). Expressed in skin fibroblasts (PubMed:30830864).
Function	ADP-ribosylhydrolase 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 and threonine, 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
Background	
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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