

Rabbit PPP1R8 Polyclonal Antibody | anti-PPP1R8 antibody

PPP1R8 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324910	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

PPP1R8; Polyclonal Antibody; PPP1R8 Antibody; Activator of RNA decay; ARD 1; ARD-1; ARD1; Homolog of E.coli RNase E; NIPP 1; NIPP-1; NIPP1; Nuclear inhibitor of protein phosphatase 1; nuclear inhibitor of protein phosphatase-1 alpha; Nuclear subunit of PP1; PP1R8_HUMAN; PRO2047; Protein phosphatase 1 regulatory inhibitor subunit 8; Protein phosphatase 1 regulatory subunit 8; RNase E; E. coli; homolog of; anti-PPP1R8 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PPP1R8 antibody detects endogenous levels of total PPP1R8
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	127
Applicable Applications for anti-PPP1R8 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus
Tissue Specificity	Ubiquitously expressed, with highest levels in heart and skeletal muscle, followed by brain, placenta, lung, liver and pancreas. Less abundant in kidney. The concentration and ratio between isoforms is cell-type dependent. Isoform Alpha (> 90%) and isoform Beta were found in brain, heart and kidney. Isoform Gamma is mainly found in B-cells and T-lymphocytes, and has been found in 293 embryonic kidney cells.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (91%), Xenopus (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from Jurkat cells, using PPP1R8 antibody.



IF (Immunofluorescence)
AAA324910 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PPP1R8 antibody	Function: Inhibitor subunit of the major nuclear protein phosphatase-1 (PP-1). It has RNA-binding activity but does not cleave RNA and may target PP-1 to RNA-associated substrates. May also be involved in pre-mRNA splicing. Binds DNA and might act as a transcriptional repressor. Seems to be required for cell proliferation. Subunit Structure: Interacts with phosphorylated CDC5L, SF3B1 and MELK. Interacts with EED, in a nucleic acid-stimulated manner. Part of a complex consisting of PPP1R8, EED, HDAC2 and PP-1. Part of the spliceosome. Interacts with PPP1CA, PPP1CB and PPP1CC. Post-translational Modifications: May be inactivated by phosphorylation on Ser-199 or Ser-204 (By similarity). Phosphorylated by Lyn in vitro on Tyr-264, and also on Tyr-335 in the presence of RNA. Similarity: Has a basic N-and C-terminal and an acidic central domain.The FHA domain mediates interactions with threonine-phosphorylated MELK.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506015
NCBI GeneID	5511
NCBI Accession #	NP_002704.1
NCBI GenBank Nucleotide #	NM_002713.3
UniProt Accession #	Q12972; Q5TEJ2; Q5TEJ4; Q5TIF2; Q6PKF6; Q9UBH1; Q9UBZ0
Molecular Weight	Observed: 40 kD Predicted: 39 kDa
NCBI Official Full Name	nuclear inhibitor of protein phosphatase 1 isoform gamma
NCBI Official Synonym Full Names	protein phosphatase 1 regulatory subunit 8
NCBI Official Symbol	PPP1R8
NCBI Official Synonym Symbols	ARD1; ARD-1; NIPP1; NIPP-1; PRO2047
NCBI Protein Information	nuclear inhibitor of protein phosphatase 1
UniProt Protein Name	Nuclear inhibitor of protein phosphatase 1
UniProt Gene Name	PPP1R8
UniProt Synonym Gene Names	ARD1; NIPP1; NIPP-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.