10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ARD1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51809

Product Information

Application	WB
Primary Accession	Q12972
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	38479

Additional Information

Gene ID	5511
Other Names	Nuclear inhibitor of protein phosphatase 1, NIPP-1, Protein phosphatase 1 regulatory inhibitor subunit 8, Activator of RNA decay, 314-, ARD-1, PPP1R8, ARD1, NIPP1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human ARD1. The exact sequence is proprietary.
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	PPP1R8
Synonyms	ARD1, NIPP1
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.
Cellular Location	Nucleus. Nucleus speckle. Note=Primarily, but not exclusively, nuclear
Tissue Location	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.

Background

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.

References

Wang M.,et al.Proc. Natl. Acad. Sci. U.S.A. 91:10591-10595(1994).
Van Eynde A.,et al.Eur. J. Biochem. 261:291-300(1999).
Liu J.P.,et al.Submitted (FEB-1999) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).