

Rabbit ARPP21 Polyclonal Antibody | anti-ARPP21 antibody

ARPP21 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324544	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ARPP21; Polyclonal Antibody; ARPP21 Antibody; 0710001E13Rik; A1853636; ARP21_HUMAN; ARPP-21; cAMP regulated phosphoprotein; 21kDa; cAMP-regulated phosphoprotein 21; cAMP-regulated phosphoprotein; 21-KD; Cyclic AMP-regulated phosphoprotein; 21; D9Bwg1012e; FLJ32997; MGC109368; OTTHUMP00000161358; OTTHUMP00000208635; OTTHUMP00000208636; OTTHUMP00000208637; OTTHUMP00000208638; OTTHUMP00000208639; OTTHUMP00000208640; OTTHUMP00000208641; OTTHUMP00000208646; OTTHUMP00000208648; OTTHUMP00000208651; OTTHUMP00000208652; OTTHUMP00000208653; OTTHUMP00000208657; Ppp1r1c; Ppp1r1cl; R3H domain containing 3; R3HDM3; RCS; Regulator of calmodulin signaling; RGD1307208; RGD1307215; Tarpp; Thymocyte cAMP-regulated phosphoprotein; anti-ARPP21 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ARPP21 antibody detects endogenous levels of total ARPP21
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	89
Applicable Applications for anti-ARPP21 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Tissue Specificity	Isoform 2 is expressed in brain. Isoform 1 is present in immature thymocytes (at protein level).
Predicted Cross Reactivity	Pig, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
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 HeLa cells, using ARPP21 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA324544 at 1/100 staining Rat spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA324544 staining HeLa 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-ARPP21 antibody

Function: Isoform 2 may act as a competitive inhibitor of calmodulin-dependent enzymes such as calcineurin in neurons.
Subunit Structure: Interacts with CALM1.
Post-translational Modifications: Phosphorylation at Ser-56 favors interaction with CALM1. Isoform 1 is methylated by CARM1 in immature thymocytes.

NCBI AND UNIPROT INFORMATION

NCBI GI #	68161520
NCBI GeneID	10777
NCBI Accession #	NP_001020239.1
NCBI GenBank Nucleotide #	NM_001025068.1
UniProt Accession #	Q9UBL0; Q49AK3; Q49AS6; Q4G0V4; Q6NYC3; Q86V31; Q9UF93; B4DG96
Molecular Weight	Observed: 80 kD Predicted: 90 kDa
NCBI Official Full Name	cAMP-regulated phosphoprotein 21 isoform 2
NCBI Official Synonym Full Names	cAMP regulated phosphoprotein 21
NCBI Official Symbol	ARPP21
NCBI Official Synonym Symbols	RCS; TARPP; R3HDM3; ARPP-21
NCBI Protein Information	cAMP-regulated phosphoprotein 21
UniProt Protein Name	cAMP-regulated phosphoprotein 21
UniProt Gene Name	ARPP21
UniProt Synonym Gene Names	TARPP; ARPP-21

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.

