

Rabbit DARPP-32 Polyclonal Antibody | anti-DARPP-32 antibody

Phospho-DARPP-32 (Thr34) Antibody

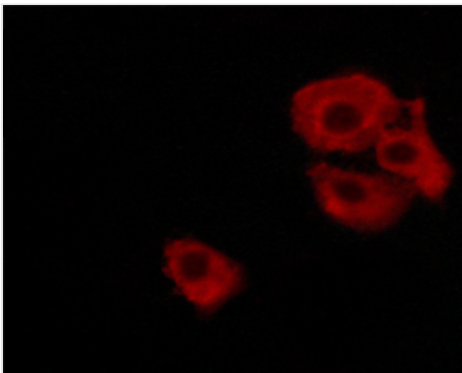
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321776	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

DARPP-32; Polyclonal Antibody; Phospho-DARPP-32 (Thr34) Antibody; DARPP 32; Dopamine and cAMP regulated neuronal phosphoprotein 32; Dopamine and cAMP regulated neuronal phosphoprotein; Dopamine and cAMP regulated phosphoprotein; Dopamine and cAMP regulated phosphoprotein DARPP 32; Dopamine and cAMP regulated phosphoprotein DARPP32; Dopamine-and cAMP-regulated neuronal phosphoprotein; FLJ20940; IPPD; Neuronal phosphoprotein DARPP 32; PPP1R1B; PPR1B_HUMAN; Protein phosphatase 1 regulatory (inhibitor) subunit 1B; Protein phosphatase 1 regulatory inhibitor subunit 1B; Protein phosphatase 1 regulatory subunit 1B; anti-DARPP-32 antibody

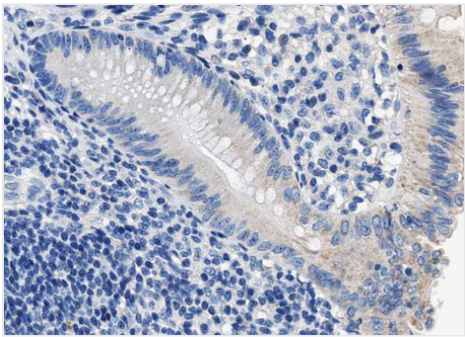
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-DARPP-32 (Thr34) antibody detects endogenous levels of DARPP-32 only when phosphorylated at Threonine 34
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
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	168
Applicable Applications for anti-DARPP-32 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human DARPP-32 around the phosphorylation site of Threonine 34
Subcellular Location	Cytoplasm.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (91%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (91%)
Conjugation	Unconjugated
Epitope	Phospho Thr34
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



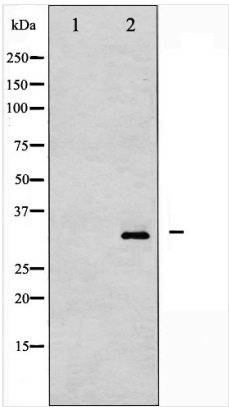
IF (Immunofluorescence)

AAA321776 staining MKN-45 cells treated with Forskolin 30 μ M, 20 min by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



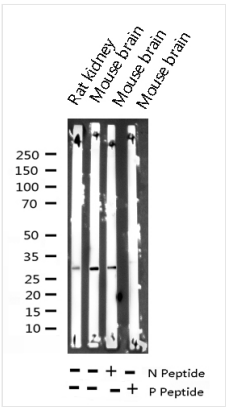
IHC (Immunohistochemistry)

AAA321776 at 1/100 staining human colon cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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.



WB (Western Blot)

Western blot analysis of DARPP-32 phosphorylation expression in PMA treated NIH-3T3 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of Phospho-DARPP-32 (Thr34) expression in various lysates



IF (Immunofluorescence)

AAA321776 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-DARPP-32 antibody	Description: DARPP-32 a member of the protein phosphatase inhibitor 1 family. A dopamine-and cyclic AMP-regulated neuronal phosphoprotein. Both dopaminergic and glutamatergic (NMDA) receptor stimulation regulate the extent of DARPP32 phosphorylation, but in opposite directions. Function: Inhibitor of protein-phosphatase 1. Post-translational Modifications: Dopamine-and cyclic AMP-regulated neuronal phosphoprotein. Phosphorylation of Thr-34 is required for activity. Similarity: Belongs to the protein phosphatase inhibitor 1 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	335057524
NCBI GeneID	84152
NCBI Accession #	NP_001229393.1
NCBI GenBank Nucleotide #	NM_001242464.1
UniProt Accession #	Q9UD71; Q547V9; Q547W0; Q9H7G1
Molecular Weight	Observed: 32 kDa Predicted: 23 kDa
NCBI Official Full Name	protein phosphatase 1 regulatory subunit 1B isoform 2
NCBI Official Synonym Full Names	protein phosphatase 1 regulatory inhibitor subunit 1B
NCBI Official Symbol	PPP1R1B
NCBI Official Synonym Symbols	DARPP32; DARPP-32
NCBI Protein Information	protein phosphatase 1 regulatory subunit 1B
UniProt Protein Name	Protein phosphatase 1 regulatory subunit 1B
UniProt Gene Name	PPP1R1B
UniProt Synonym Gene Names	DARPP32

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.