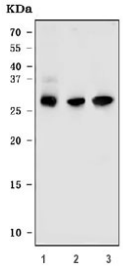
DARPP-32 Antibody (R32345)

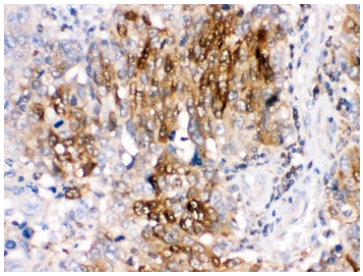
Catalog No.	Formulation	Size
R32345	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

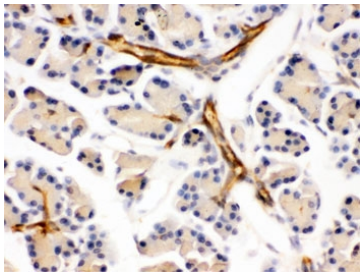
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
UniProt	Q9UD71
Localization	Cytoplasmic, minor nuclear
Applications	Western Blot : 0.1-0.5ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This DARPP-32 antibody is available for research use only.



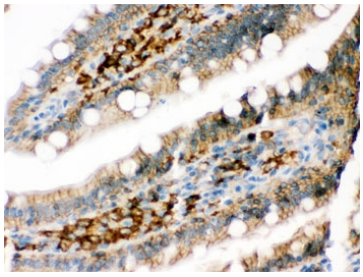
Western blot testing of 1) human Caco-2, 2) rat brain and 3) mouse brain tissue lysate with DARPP-32 antibody. Expected molecular weight ~32 kDa.



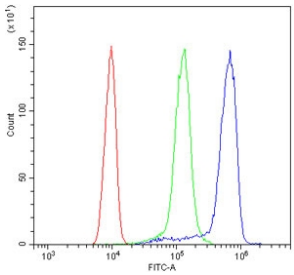
IHC testing of FFPE human lung cancer tissue with DARPP-32 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



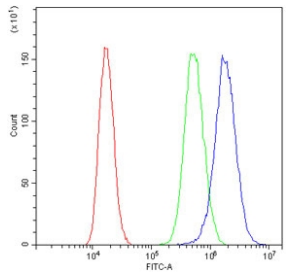
IHC testing of FFPE mouse pancreas with DARPP-32 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



IHC testing of FFPE rat intestine with DARPP-32 antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



Flow cytometry testing of human ThP-1 cells with DARPP-32 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DARPP-32 antibody.



Flow cytometry testing of human PC-3 cells with DARPP-32 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= DARPP-32 antibody.

Description

Protein phosphatase 1 regulatory subunit 1B (PPP1R1B), also known as dopamine- and cAMP-regulated neuronal phosphoprotein (DARPP-32), is a protein that in humans is encoded by the PPP1R1B gene. This gene encodes a bifunctional signal transduction molecule. Dopaminergic and glutamatergic receptor stimulation regulates its phosphorylation and function as a kinase or phosphatase inhibitor. As a target for dopamine, this gene may serve as a therapeutic target for neurologic and psychiatric disorders. Multiple transcript variants encoding different isoforms have been found for this gene.

Application Notes

Optimal dilution of the DARPP-32 antibody should be determined by the researcher.

Immunogen

Amino acids MDPKDRKKIQFSVPAPPSQLDPRQVEMIRRRRPTPA of human DARPP-32 were used as the immunogen for the DARPP-32 antibody.

Storage

After reconstitution, the DARPP-32 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.