Datasheet for ABIN1574114

anti-DARPP32 antibody (AA 150-200)

2 Images

Go to Product page

Overview

Quantity:	40 µg
Target:	DARPP32 (PPP1R1B)
Binding Specificity:	AA 150-200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DARPP32 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Immunogen:	KLH-coupled synthetic peptide within AA 150-200 of human DARPP-32 .
Isotype:	IgG
Specificity:	Rabbit Anti-DARPP-32 Polyclonal Antibody detects endogenous levels of mouse and rat DARPP-32. Predicted to react with human DARPP-32 according to sequence homology.Positive Control: Mouse brain and rat brain
Cross-Reactivity (Details):	Rabbit Anti-DARPP-32 Polyclonal Antibody detects endogenous levels of mouse and rat DARPP-32. Predicted to react with human DARPP-32 according to sequence homology.Positive Control: Mouse brain and rat brain
Purification:	Immunoaffinity chromatography

Target Details

Target:	DARPP32 (PPP1R1B)
Alternative Name:	DARPP-32 (PPP1R1B Products)
Background:	DARPP-32 (Dopamine- and cAMP-Regulated Neuronal Phosphoprotein, Mr 32 kDa), also known as PPP1R1B, is expressed in medium-sized spiny neurons that also express dopamine D1 receptors. It is a bifunctional signaling molecule that controls serine/threonine kinase and serine/threonine phosphatase activity. Both dopaminergic and glutamatergic (NMDA) receptor stimulation regulate the extent of DARPP32 phosphorylation, but in opposite directions. Dopamine stimulates phosphorylation of DARPP-32 through dopamine D1 receptors and activation of PKA. PKA phosphorylation of DARPP-32 at Thr34 converts it into an inhibitor of protein phosphatase 1. DARPP-32 is converted into an inhibitor of PKA when phosphorylated at Thr75 by cyclin-dependent kinase 5 (CDK5).Rabbit Anti-DARPP-32 Polyclonal Antibody is developed in rabbit using a KLH-coupled synthetic peptide within residues 150-200 of human DARPP-32 (Swiss Prot: Q9UD71).

Application Details

Application Notes:	Working concentrations for specific applications should be determined by the investigator. The appropriate concentrations may be affected by secondary antibody affinity, antigen concentration, the sensitivity of the method of detection, temperature, the length of the incubations, and other factors. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product. Western blot: 0.5-1 µg/mLFlow cytometry: 1-3 µg for 1 x 106 cellsOther Applications: user-optimized
Restrictions:	For Research Use only

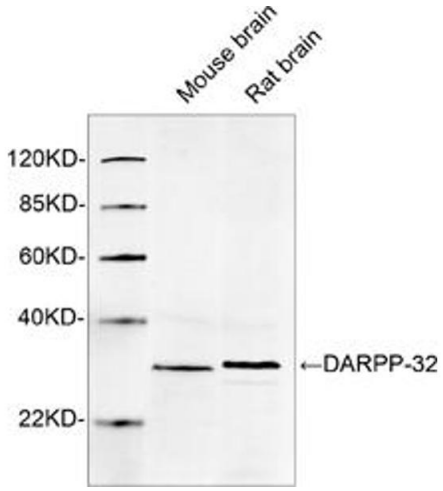
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4, containing 0.02 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	WARNING: Reagents contain sodium azide. Sodium azide is very toxic if ingested or inhaled. Avoid contact with skin, eyes, or clothing. Wear eye or face protection when handling. If skin or eye contact occurs, wash with copious amounts of water. If ingested or inhaled, contact a physician immediately. Sodium azide yields toxic hydrazoic acid under acidic conditions. Dilute

Handling

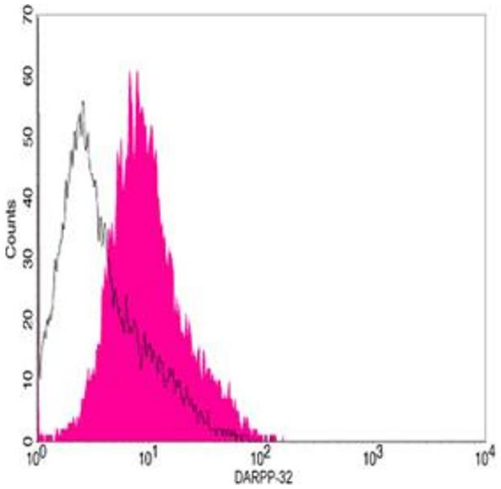
	azide-containing compounds in running water before discarding to avoid accumulation of potentially explosive deposits in lead or copper plumbing.
Storage:	4 °C/-20 °C
Storage Comment:	The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below. Avoid repeated freezing and thawing cycles.

Images



Western Blotting

Image 1. Western blot analysis of tissue lysates using 1 µg/mL DARPP-32 Antibody, pAb, Rabbit (ABIN398905) The signal was developed with IRDyeTM 800 Conjugated Goat Anti-Rabbit IgG.Predicted Size: 32 KD Observed Size: 32 KD



Flow Cytometry

Image 2. Flow cytometric analysis of Ramos cells using DARPP-32 Antibody, pAb, Rabbit (ABIN398905, shaded histogram) or with an isotype control antibody (ABIN398653, open histogram), followed by R-PE conjugated anti-rabbit IgG.