Mouse/Rat DARPP-32 Alexa Fluor® 594-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 375604

Catalog Number: FAB4230T

100 µg

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat DARPP-32. Reactivity with human DARPP-32 has not been tested.
Source	Monoclonal Rat IgG_{2A} Clone # 375604
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human DARPP-32 Ala51-Thr204 Accession # Q9UD71.2
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Dopamine- and cAMP-Regulated Phosphoprotein, Mr 32 kDa (DARPP-32), also known as PPP1R1B, is a 23 kilodalton protein that anomalously migrates at about 32-35 kDa on SDS-PAGE. When phosphorylated at T34 by protein kinase A (PKA), DARPP-32 is a potent inhibitor of protein phosphatase 1 (PP1). Dephosphorylation of DARPP-32 at T34 is achieved primarily by the calcium-dependent activation of the phosphatase calcineurin. DARPP-32 is expressed almost exclusively in neuronal tissues, with highest levels in dopamine-innervated neurons.

PRODUCT SPECIFIC NOTICES

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