893

DARPP-32 (19A3) Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IF-F	Reactivity: M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UD71	Entrez-Gene Id: 84152
Product Usage Information		Application Immunofluorescence (Frozen)		Dilution 1:50	
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		DARPP-32 (19A3) Rabbit mAb (Alexa Fluor [®] 488 Conjugate) recognizes endogenous levels of totoal DARPP-32 protein.			
Species predicted to react based on 100% sequence homology		Human			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu160 of human DARPP-32 protein.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct immunofluorescent analysis in rat tissue. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated DARPP-32 (19A3) Rabbit mAb #2306.			
Background		DARPP-32 (dopamine and cyclic AMP-regulated phosphoprotein, relative molecular mass 32,000) is a cytosolic protein highly enriched in medium-sized spiny neurons of the neostriatum (1). It is a bifunctional signaling molecule that controls serine/threonine kinase and serine/threonine phosphatase activity (2). Dopamine stimulates phosphorylation of DARPP-32 through D1 receptors and activation of PKA. PKA phosphorylation of DARPP-32 at Thr34 converts it into an inhibitor of protein phosphatase 1 (1). DARPP-32 is converted into an inhibitor of PKA when phosphorylated at Thr75 by cyclin-dependent kinase 5 (CDK5) (2). Mice containing a targeted deletion of the DARPP-32 gene exhibit an altered biochemical, electrophysiological, and behavioral phenotype (3).			
Background References		1. Nishi, A. et al. (1997) <i>J. Neurosci.</i> 17, 8147-8155. 2. Bibb, J.A. et al. (1999) <i>Nature</i> 402, 669-671. 3. Fienberg, A.A. et al. (1998) <i>Science</i> 281, 838-842.			
Species Reactivit	у	Species reactivity is deter	mined by testing in at lea	ast one approved ap	plication (e.g., western blot).
Applications Key		IF-F: Immunofluorescence (Frozen)			
Cross-Reactivity Key		M: Mouse R: Rat			
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