www.antibodiesinc.com
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530-758-4400

PRODUCT DATASHEET

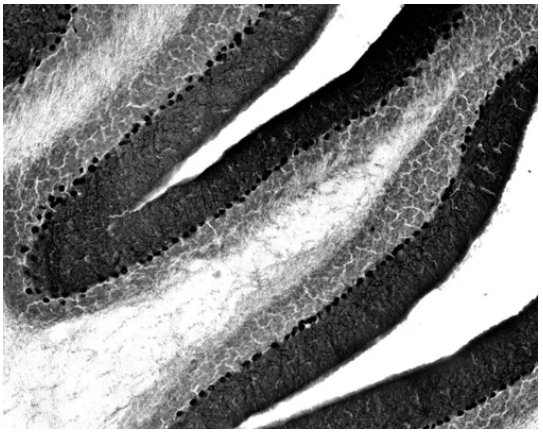
Anti-IP3 Receptor, Type 1 Antibody

Product Details

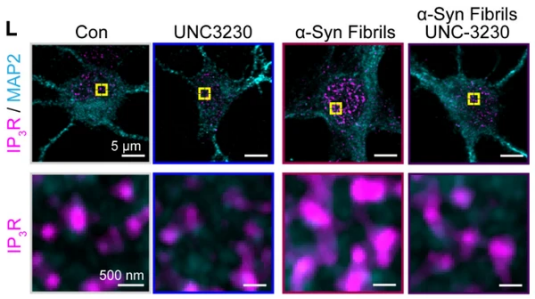
Available Variants	100 µL (SKU:75-035)
Conjugate	Unconjugated
Isotype	IgG1
Clone	L24/18
Gene Name	Itpr1 Insp3r
Host Species	Mouse
Concentration	1 mg/mL
Format	Purified by Protein A chromatography
Physical State	Liquid
Buffer	10 mM Tris, 50 mM Sodium Chloride, 0.065% Sodium Azide pH 7.4
Production Notes	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography. Purified mAbs are >90% specific antibody.
Applications	ELISA, ICC, IHC, IP, WB
Dilution Ranges	WB: 1:1000 IHC: 1:100 ICC: 1:100
Species Reactivity	Canine, Human, Mouse, Rat
Immunogen	Fusion protein amino acids 2680-2749 (cytoplasmic carboxyl terminus) of rat type 1 IP3R (accession number P29994) produced recombinantly in E. Coli
Specificity	Does not recognize type 2 and type 3 IP3R's
Molecular Weight	300 kDa (varies due to glycosylation)

Quality Control	Each new lot of antibody is quality control tested by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.
Storage	Aliquot and store at ≤ -20°C for long term storage. For short term storage, store at 2-8°C. For maximum recovery of product, centrifuge the vial prior to removing the cap.
Antibody Registry ID	AB_10000362
UniProt ID	P29994 UniProt Summary: Inositol 1,4,5-trisphosphate-gated calcium channel that, upon inositol 1,4,5-trisphosphate binding, mediates calcium release from the endoplasmic reticulum (ER). Undergoes conformational changes upon ligand binding, suggesting structural flexibility that allows the channel to switch from a closed state, capable of interacting with its ligands such as 1,4,5-trisphosphate and calcium, to an open state, capable of transferring calcium ions across the ER membrane. Cytoplasmic calcium released from the ER triggers apoptosis by the activation of CAMK2 complex. Part of a complex composed of HSPA9, ITPR1 and VDAC1 that regulates mitochondrial calcium-dependent apoptosis by facilitating calcium transport from the ER lumen to the mitochondria intermembrane space thus providing calcium for the downstream calcium channel MCU that directly releases it into mitochondria matrix. Involved in the regulation of epithelial secretion of electrolytes and fluid through the interaction with AHCYL1. Regulates fertilization and egg activation by tuning the frequency and amplitude of calcium oscillations.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.
NCBI Gene ID	25262

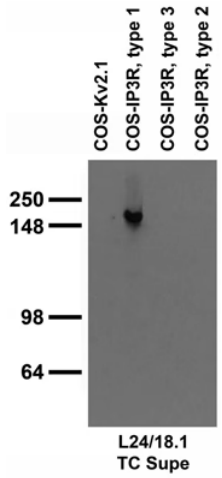
Product Images



Adult rat cerebellar immunohistochemistry.



Representative confocal images of control and α-Syn fibril-treated mouse neurons stained with IP3R1 (Cat. 75-035; magenta) and MAP2 (cyan) with or without treatment of 100 nM UNC-3230. Zoomed-in images show only IP3R1. Image from publication CC-BY-4.0. PMID:37838947



Extracts of COS-1 cells transfected with plasmids for Kv2.1 and type 1, 2 and 3 IP3 receptors and probed with L24/18 TC supe.

Created on 19. November 2026 | All information without guarantee