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PRODUCT DATASHEET

Anti-IP3 Receptor, Type 1 Antibody (BSA and Azide free)

NeuroMab

Product Details

Available Variants	100 µL (SKU:75-035-CF)
Conjugate	Unconjugated
Isotype	IgG1
Clone	L24/18
Gene Name	Itpr1 Insp3r
Host Species	Mouse
Concentration	Lot dependent: provided at 0.6-1.0 mg/mL
Format	Purified by Protein A chromatography
Physical State	Liquid
Buffer	PBS
Production Notes	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and buffer exchanged into 1X PBS. Purified mAbs are >90% specific antibody.
Applications	ELISA, ICC, IHC, IP, WB
Species Reactivity	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.

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	12 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



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