Datasheet for ABIN6658135

anti-IP3 Receptor antibody (C-Term)

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Overview

Quantity:	100 µg
Target:	IP3 Receptor (ITP-R83A)
Binding Specificity:	C-Term
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This IP3 Receptor antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Fluorescence Microscopy (FM)

Product Details

Immunogen:	Immunogen: IP3 Receptor Antibody was produced in mice by repeated immunizations raised against a fusion protein of the cytoplasmic carboxyl terminus region of rat type1 IP3R inositol 1,4,5-triphosphate receptor type 1, Itpr1. Immunogen Type: Recombinant Protein
Clone:	S24-18
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse (Murine), Rat (Rattus)
Purification:	Anti-IP3 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with IP3 from Human, Mouse, and Rat based on 100% homology with the immunizing sequence. Cross-reactivity with IP3 from other sources has not been determined. Ion Channels research.

Target Details

Target:	IP3 Receptor (ITP-R83A)
Alternative Name:	IP3 Receptor (ITP-R83A Products)
Background:	Synonyms: IP3 Receptor, S24-18,Inositol 1,4,5-trisphosphate receptor type 1,IP3 receptor isoform 1, IP-3-R, IP3R1,Type 1 inositol 1,4,5-trisphosphate receptor, Insp3r Background: Inositol 1,4,5-triphosphate receptor, also known as IP3R or InsP3R, is a member of the intracellular calcium release channel family, and is located in the endoplasmic reticulum. It functions as a Ca2+ release channel for intracellular stores of calcium ions. There are three types of IP3 receptors (IP3 receptor 1, 2 and 3) that require the second messenger inositol 1,4,5-triphosphate (IP3) for activation. Four individual receptor subunits, resulting in homo- or heterooligomerization of the receptor isoform, form a functional channel. Phosphorylation of IP3R1 at Ser1756 by cyclic- AMP-dependent protein kinase A (PKA) regulates the sensitivity of IP3R1 to IP3 and may thus be a mode of regulation for Ca2+ release. IP3R1 mediated calcium release appears to have an effect on the induction of long term depression (LTD) in Purkinje cells. Gene Name: Itpr1
Gene ID:	25262
NCBI Accession:	NP_001007236
UniProt:	P29994
Pathways:	Fc-epsilon Receptor Signaling Pathway, Thyroid Hormone Synthesis, Myometrial Relaxation and Contraction, G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma

Application Details

Application Notes:	Immunohistochemistry Dilution: 0.1-1.0 µg/mL Application Note: Anti-IP3 Antibody is suitable for use in WB, IP, and IHC. Expect a band approximately ~300 kDa on specific lysates. Does not recognize type 2 or type 3 IP3R's. Specific conditions for reactivity should be optimized by the end user. Western Blot Dilution: 1 µg/mL IF Microscopy Dilution: 1.0-10 µg/mL
Restrictions:	For Research Use only

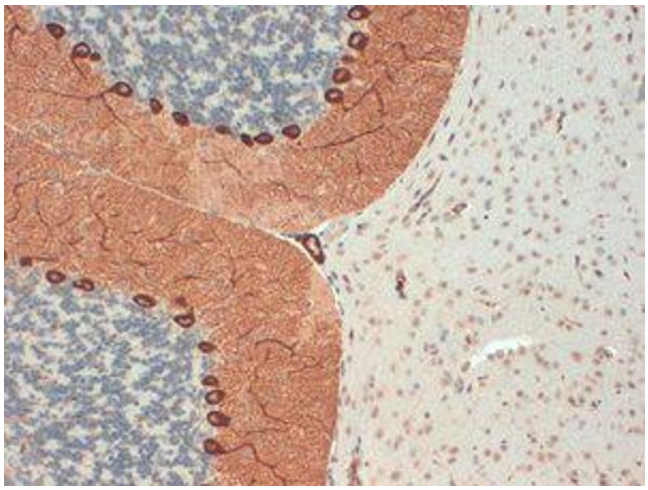
Handling

Format:	Liquid

Handling

Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol 0.09 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Images



Immunohistochemistry

Image 1. IP3 Receptor Immunohistochemistry. Immunohistochemistry of mouse anti-IP3 antibody. Tissue: cerebellum tissue in mouse. Primary Antibody: IP3 antibody at 1µg/mL for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Endoplasmic reticulum membrane. Staining: IP-3 as brown signal.

Immunohistochemistry

Image 2. IP3 Receptor Immunohistochemistry. Immunohistochemistry of mouse anti-IP3 antibody. Tissue: cerebellum tissue in mouse. Primary Antibody: IP3 antibody at 1µg/mL for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Endoplasmic reticulum membrane. Staining: IP-3 as brown signal.

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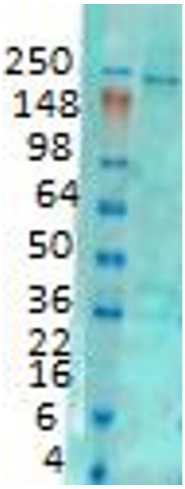

Western Blotting

Image 3. IP3 Receptor Western Blot. Western Blot of mouse anti-IP3 total antibody. Lane 1: Rat Brain membrane tissue. Primary antibody: IP-3 total antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C. Predicted/Observed size: 313.2kDa/200 kDa for IP3. Other band(s): none.

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