Datasheet for ABIN967898

anti-ITPR3 antibody (AA 22-230)

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Overview

Quantity:	50 µg
Target:	ITPR3
Binding Specificity:	AA 22-230
Reactivity:	Human, Mouse, Rat, Cow, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ITPR3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

Product Details

Immunogen:	Human IP3R-3 aa. 22-230
Clone:	2-IP3R
Isotype:	IgG2a
Cross-Reactivity:	Cow (Bovine), Dog (Canine), Mouse (Murine), Rat (Rattus)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	ITPR3
Alternative Name:	IP 3R-3 (ITPR3 Products)
Background:	Inositol 1,4,5-triphosphate (IP3) functions as a second messenger for many hormones, growth factors, and neurotransmitters. IP3 causes the release of Ca2+ from intracellular stores by binding specific receptors that are coupled to Ca2+ channels. A number of studies have identified a family of at least four IP3 receptors (IP3R). The type III receptor (IP3R-3) has been isolated and characterized in human and rat. IP3 receptors are commonly localized in the endoplasmic reticulum, but have also been identified in the nucleus and the plasma membrane. Co-expression of different IP3 receptors is detected in most tissues and cell lines. Although these receptors appear to have a similar specificity for inositol phosphates, the different receptors have been reported to have different affinities for IP3 as follows: type II > type I > type III. This antibody is routinely tested by western blot analysis. Synonyms: Inositol 1,4,5-triphosphate receptor type III
Molecular Weight:	300 kDa
Pathways:	Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid Hormone Synthesis, Myometrial Relaxation and Contraction, G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma, BCR Signaling

Application Details

Comment:	Related Products: ABIN968535, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:

Leite, Thrower, Echevarria, Koulen, Hirata, Bennett, Ehrlich, Nathanson: "Nuclear and cytosolic calcium are regulated independently." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 100, Issue 5, pp. 2975-80, (2003) (PubMed).

Zanner, Hapfelmeier, Gratzl, Prinz: "Intracellular signal transduction during gastrin-induced histamine secretion in rat gastric ECL cells." in: **American journal of physiology. Cell physiology**, Vol. 282, Issue 2, pp. C374-82, (2002) (PubMed).

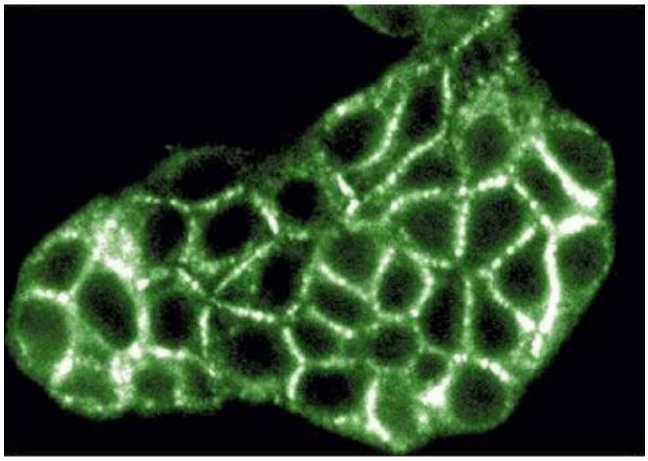
Pin, Rukstalis, Johnson, Konieczny: "The bHLH transcription factor Mist1 is required to maintain exocrine pancreas cell organization and acinar cell identity." in: **The Journal of cell biology**, Vol. 155, Issue 4, pp. 519-30, (2001) (PubMed).

Maranto: "Primary structure, ligand binding, and localization of the human type 3 inositol 1,4,5-trisphosphate receptor expressed in intestinal epithelium." in: **The Journal of biological chemistry**, Vol. 269, Issue 2, pp. 1222-30, (1994) (PubMed).

Blondel, Takeda, Janssen, Seino, Bell: "Sequence and functional characterization of a third inositol trisphosphate receptor subtype, IP3R-3, expressed in pancreatic islets, kidney, gastrointestinal tract, and other tissues." in: **The Journal of biological chemistry**, Vol. 268, Issue 15, pp. 11356-63, (1993) (PubMed).

Western Blotting

Image 1. Western blot analysis of IP3R-3 on a HeLa cell lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the anti- IP3R-3 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of MDCK cells (canine kidney, ATCC CCL-34).

