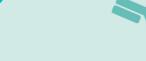
antibodies -online.com







anti-ITPR1 antibody (AA 2411-2758)





Publication



Go to Product page

Overview

100 μg
ITPR1
AA 2411-2758
Human, Mouse, Rat
Rabbit
Polyclonal
This ITPR1 antibody is un-conjugated
Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Rabbit IgG polyclonal antibody for Inositol 1,4,5-trisphosphate receptor type 1(ITPR1) detection. Tested with WB, IHC-P in Human, Mouse, Rat.
E.coli-derived human IP3 receptor recombinant protein (Position: A2411-A2758). Human IP3 receptor shares 98% and 97% amino acid (aa) sequences identity with mouse and rat IP3 receptor, respectively.
lgG
No cross reactivity with other proteins.
Rabbit IgG polyclonal antibody for Inositol 1,4,5-trisphosphate receptor type 1(ITPR1) detection. Tested with WB, IHC-P in Human, Mouse, Rat. Gene Name: inositol 1,4,5-trisphosphate receptor, type 1 Protein Name: Inositol 1,4,5-trisphosphate receptor type 1

Product Details Purification: Immunogen affinity purified. **Target Details** Target: ITPR1 Alternative Name ITPR1 (ITPR1 Products) Background: Inositol 1,4,5-trisphosphate receptor type 1, also known as IP3R or IP3R1, is a protein that in humans is encoded by the ITPR1 gene. It is mapped to 3p26.1. The product of the ITPR1 gene is predominantly enriched in cerebellar Purkinje cells but is also concentrated in neurons in the hippocampal CA1 region, caudate-putamen, and cerebral cortex. The ITPR1 gene encodes the inositol 1,4,5-triphosphate(IP3) receptor, an intracellular IP3-gated calcium channel that modulates intracellular calcium signaling. Upon stimulation by inositol 1,4,5-trisphosphate, this receptor mediates calcium release from the endoplasmic reticulum. Mutations in ITPR1 cause spinocerebellar ataxia type 15, a disease associated with an heterogeneous group of cerebellar disorders. Synonyms: 4 antibody|5-trisphosphate receptor antibody|5-trisphosphate receptor type 1 antibody|DKFZp313E1334 antibody|DKFZp313N1434 antibody|inositol 1 4 5 triphosphate receptor type 1 antibody|Inositol 1 4 5 trisphosphate Receptor Type 1 antibody|Inositol 1 antibody|Inositol 145-trisphosphate Receptor Type 1 antibody|InsP3R1 antibody|IP3 antibody|IP3 receptor antibody|IP3 receptor isoform 1 antibody|IP3R 1 antibody|IP3R antibody||P3R1 antibody||TPR 1 antibody||tpr1 antibody||TPR1_HUMAN antibody||SCA15 antibody|SCA16 antibody|SCA29 antibody|Type 1 inositol 1 4 5 trisphosphate receptor antibody|Type 1 inositol 1 antibody|Type 1 InsP3 receptor antibody Gene ID: 3708 UniProt: Q14643 Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathways: Pathway, Thyroid Hormone Synthesis, Myometrial Relaxation and Contraction, Synaptic Membrane, G-protein mediated Events, Interaction of EGFR with phospholipase C-gamma

Application Details

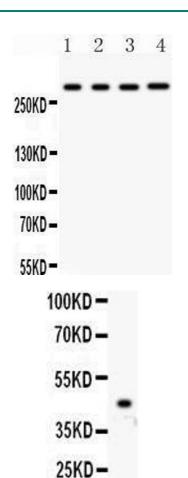
Application Notes:

WB: Concentration: 0.1- $0.5 \,\mu g/mL$, Tested Species: Human, Rat, The detection limit for IP3 receptor is approximately $0.2 \, ng/lane$ under reducing conditions.

IHC-P: Concentration: 0.5- $1 \,\mu g/mL$, Tested Species: Human, Mouse, Rat, Epitope Retrieval by

Application Details

Application Details	
	Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
	Notes: Tested Species: Species with positive results. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μg/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg 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.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.
	It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Publications	
Product cited in:	Li, Zhao, Qi, Wang, Zhang, Li, Qin: "IncRNA Ftx promotes aerobic glycolysis and tumor
	progression through the PPARγ pathway in hepatocellular carcinoma." in: International journal
	of oncology, Vol. 53, Issue 2, pp. 551-566, (2018) (PubMed).

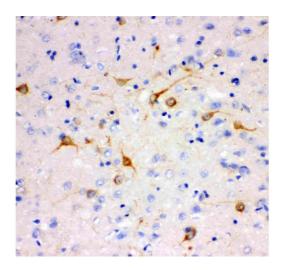


Western Blotting

Image 1. Anti- IP3 receptor antibody, Western blotting All lanes: Anti IP3 receptor at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Rat Liver Tissue Lysate at 50ug Lane 3: HELA Whole Cell Lysate at 40ug Lane 4: HEPG2 Whole Cell Lysate at 40ug Predicted bind size: 314KD Observed bind size: 314KD

Western Blotting

Image 2. Anti- IP3 receptor antibody, Western blotting All lanes: Anti IP3 receptor at 0.5ug/ml WB: Recombinant Human IP3 receptor Protein 0.5ng Predicted bind size: 45KD Observed bind size: 45KD



15KD -

Immunohistochemistry

Image 3. Anti- IP3 receptor antibody, IHC(P): Rat Brain Tissue

Please check the product details page for more images. Overall 6 images are available for ABIN3043862.