

## ARG10608 anti-IP3 Receptor antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes IP3 Receptor
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	IP3 Receptor
Species	Human
Immunogen	Recombinant fragment around aa. 2411-2758 of Human IP3 Receptor.
Conjugation	Un-conjugated
Alternate Names	IP3R; SCA29; InsP3R1; SCA15; Type 1 InsP3 receptor; SCA16; INSP3R1; PPP1R94; IP3R 1; IP3 receptor isoform 1; ACV; IP3R1; CLA4; Inositol 1,4,5-trisphosphate receptor type 1; Type 1 inositol 1,4,5-trisphosphate receptor

### Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 <sup>6</sup> cells
	ICC/IF	1 - 5 µg/ml
	IHC-P	1 - 5 µg/ml
	WB	0.5 - 1 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	SHG-44 (glioma), Rat brain and Mouse brain	
Observed Size	~ 315 kDa	

### Properties

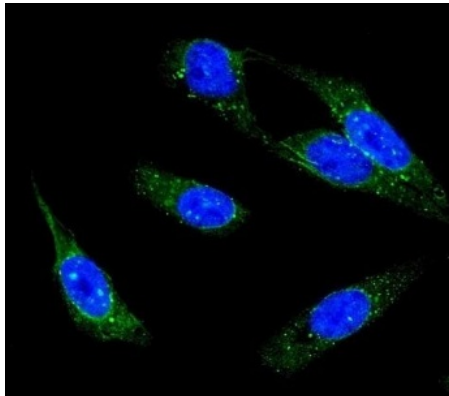
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.025% Sodium azide and 2.5% BSA.
Preservative	0.025% Sodium azide
Stabilizer	2.5% BSA

Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

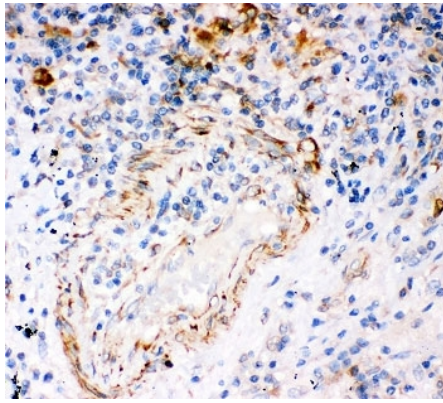
Gene Symbol	ITPR1
Gene Full Name	inositol 1,4,5-trisphosphate receptor, type 1
Background	This gene encodes an intracellular receptor for inositol 1,4,5-trisphosphate. Upon stimulation by inositol 1,4,5-trisphosphate, this receptor mediates calcium release from the endoplasmic reticulum. Mutations in this gene cause spinocerebellar ataxia type 15, a disease associated with an heterogeneous group of cerebellar disorders. Multiple transcript variants have been identified for this gene. [provided by RefSeq, Nov 2009]
Function	Intracellular channel that mediates calcium release from the endoplasmic reticulum following stimulation by inositol 1,4,5-trisphosphate. Involved in the regulation of epithelial secretion of electrolytes and fluid through the interaction with AHCYL1 (By similarity). Plays a role in ER stress-induced apoptosis. Cytoplasmic calcium released from the ER triggers apoptosis by the activation of CaM kinase II, eventually leading to the activation of downstream apoptosis pathways (By similarity). [UniProt]
Calculated Mw	314 kDa
PTM	Phosphorylated on tyrosine residues. Ubiquitination at multiple lysines targets ITPR1 for proteasomal degradation. Approximately 40% of the ITPR1-associated ubiquitin is monoubiquitin, and polyubiquitins are both 'Lys-48'- and 'Lys-63'-linked (By similarity). Phosphorylated by cAMP kinase (PKA). Phosphorylation prevents the ligand-induced opening of the calcium channels. Phosphorylation by PKA increases the interaction with inositol 1,4,5-trisphosphate and decreases the interaction with AHCYL1.

## Images



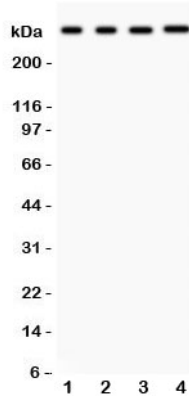
ARG10608 anti-IP3 Receptor antibody ICC/IF image

Immunofluorescence: U-2 OS cells stained with ARG10608 anti-IP3 Receptor antibody (green). DAPI (blue) for nuclear staining.



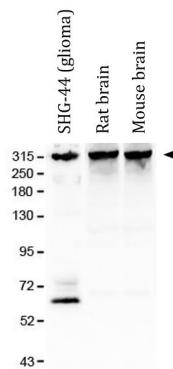
ARG10608 anti-IP3 Receptor antibody IHC-P image

Immunohistochemistry: Human lung cancer tissue stained with ARG10608 anti-IP3 Receptor antibody.



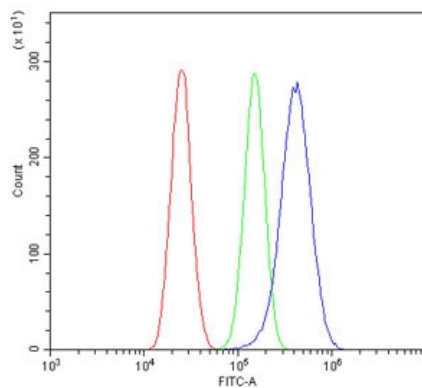
ARG10608 anti-IP3 Receptor antibody WB image

Western blot: 1) Rat brain, 2) Rat liver, 3) HeLa, and 4) HepG2 lysates stained with ARG10608 anti-IP3 Receptor antibody.



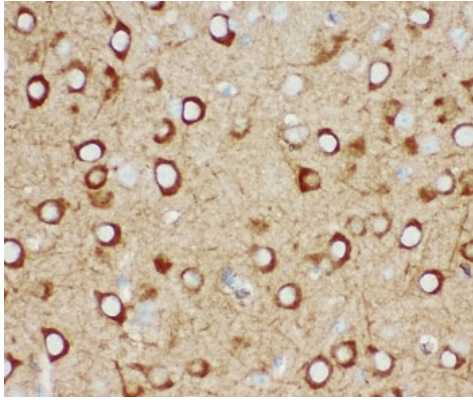
ARG10608 anti-IP3 Receptor antibody WB image

Western blot: SHG-44 (glioma), Rat brain and Mouse brain lysates stained with ARG10608 anti-IP3 Receptor antibody at 1  $\mu\text{g}/\text{ml}$  dilution.



ARG10608 anti-IP3 Receptor antibody FACS image

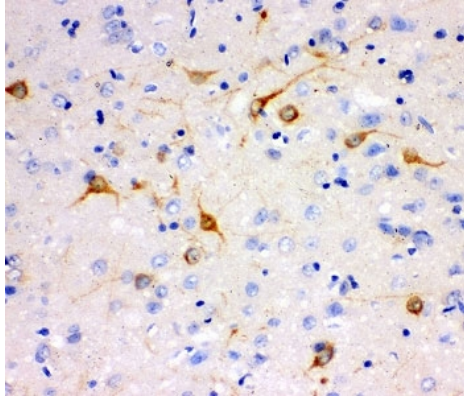
Flow Cytometry: U-87 MG cells were blocked with goat sera and stained with ARG10608 anti-IP3 Receptor antibody at 1  $\mu\text{g}/10^6$  cells (blue); Cells alone (red); Isotype control (green).



ARG10608 anti-IP3 Receptor antibody IHC-P image

Immunohistochemistry: Mouse brain tissue stained with ARG10608 anti-IP3 Receptor antibody.

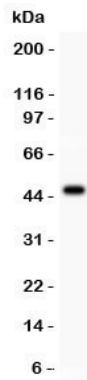
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ARG10608 anti-IP3 Receptor antibody IHC-P image

Immunohistochemistry: Rat brain tissue stained with ARG10608 anti-IP3 Receptor antibody.

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ARG10608 anti-IP3 Receptor antibody WB image

Western blot: 0.5 ng of recombinant human protein stained with ARG10608 anti-IP3 Receptor antibody.

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