

ITPR2 Rabbit pAb

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Catalog # AP58137

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q14571
Reactivity	Mouse
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	308064
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ITPR2
Epitope Specificity	2351-2450/2701
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Endoplasmic reticulum membrane; Multi-pass membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Receptor for inositol 1,4,5-trisphosphate, a second messenger that mediates the release of intracellular calcium.

Additional Information

Gene ID	3709
Other Names	Inositol 1, 4, 5-trisphosphate-gated calcium channel ITPR2, IP3 receptor isoform 2, IP3R 2, InsP3R2, Inositol 1, 4, 5-trisphosphate receptor type 2, Type 2 inositol 1, 4, 5-trisphosphate receptor, Type 2 InsP3 receptor, ITPR2 (HGNC:6181)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ITPR2 (HGNC:6181)
Function	Inositol 1,4,5-trisphosphate-gated calcium channel that upon inositol

1,4,5-trisphosphate binding transports calcium from the endoplasmic reticulum lumen to cytoplasm. Exists in two states; a long- lived closed state where the channel is essentially 'parked' with only very rare visits to an open state and that ligands facilitate the transition from the 'parked' state into a 'drive' mode represented by periods of bursting activity (By similarity).

Cellular Location

Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q9Z329}; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle membrane {ECO:0000250|UniProtKB:Q8WN96}; Multi-pass membrane protein. Note=Forms clusters on endoplasmic reticulum membrane upon inositol 1,4,5-trisphosphate binding {ECO:0000250|UniProtKB:Q9Z329}

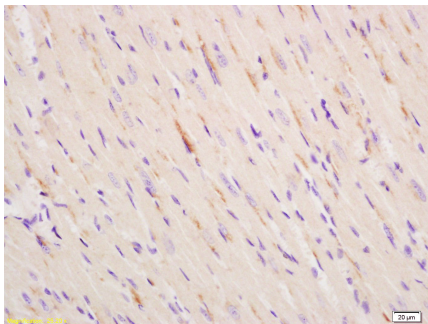
Tissue Location

[Isoform Short]: Found in skeletal muscle and heart.

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Images



Tissue/cell: mouse heart tissue; 4%
Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling
bathing for 15min; Block endogenous peroxidase by 3%
Hydrogen peroxide for 30min; Blocking buffer (normal
goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-ITPR2 Polyclonal Antibody,
Unconjugated(AP58137) 1:200, overnight at 4°C, followed
by conjugation to the secondary antibody(SP-0023) and
DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.