

ITPR2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP58137

Specification

ITPR2 Polyclonal Antibody - Product Information

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession
Reactivity
Rat, Bovine
Host
Clonality
Calculated MW
Physical State

O14571
Rat, Bovine
Rabbit
Polyclonal
308 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

from human ITPR2 2351-2450/2701

lsotype IgG

Purity affinity purified by Protein A

Epitope Specificity

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Endoplasmic reticulum membrane; Multi-pass membrane protein.

SIMILARITY Belongs to the InsP3 receptor family.

Contains 5 MIR domains.

SUBUNIT

Post-translational modifications

Homotetramer. Interacts with CABP1.

Phosphorylation by cAMP-dependent PKA

on Ser-937 increases calcium release.

Important Note

This product as supplied is intended for research use only not for use in human

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.

ITPR2 Polyclonal Antibody - Additional Information

Gene ID 3709

Other Names

Inositol 1, 4, 5-trisphosphate receptor type 2, IP3 receptor isoform 2, IP3R 2, InsP3R2, Type 2 inositol 1, 4, 5-trisphosphate receptor, Type 2 InsP3 receptor, ITPR2

Target/Specificity

Isoform Short is found in skeletal muscle and heart.

Dilution

IHC-P~~N/A<br \><span class</pre>



="dilution_IHC-F">IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

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.

ITPR2 Polyclonal Antibody - 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.

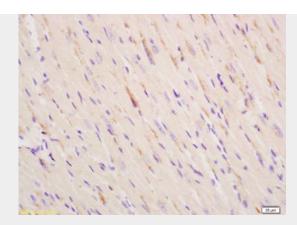
ITPR2 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ITPR2 Polyclonal Antibody - 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(bs-4243R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining