



Rabbit Anti-ITPR2 antibody

SL4243R

Product Name:	ITPR2
Chinese Name:	5-三磷酸肌醇受体2抗体
Alias:	4; 5-trisphosphate receptor; Inositol 1 4 5 trisphosphate receptor type 2; Inositol 1,4,5-trisphosphate receptor type 2; Inositol 145 trisphosphate receptor type 2; InsP3 R2; InsP3R2; IP3 R2; IP3 receptor isoform 2; IP3R 2; IP3R2; ITPR 2; Itpr2; ITPR2_HUMAN; Type 2 inositol 1 4 5 trisphosphate receptor; Type 2 inositol 1; Type 2 inositol 145 trisphosphate receptor; Type 2 InsP3 receptor.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	308kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ITPR2:2351-2450/2701<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	Receptor for inositol 1,4,5-trisphosphate, a second messenger that mediates the release of intracellular calcium.

Function:

Receptor for inositol 1,4,5-trisphosphate, a second messenger that mediates the release of intracellular calcium. This release is regulated by cAMP both dependently and independently of PKA (By similarity).

Subunit:

Homotetramer. Interacts with CABP1.

Subcellular Location:

Endoplasmic reticulum membrane; Multi-pass membrane protein.

Tissue Specificity:

Isoform Short is found in skeletal muscle and heart.

Post-translational modifications:

Phosphorylation by cAMP-dependent PKA on Ser-937 increases calcium release.

Similarity:

Belongs to the InsP3 receptor family.
Contains 5 MIR domains.

SWISS:

Q14571

Gene ID:

3709

Database links:

[Entrez Gene: 281878](#)Cow

[Entrez Gene: 3709](#)Human

[Entrez Gene: 16439](#)Mouse

[Entrez Gene: 81678](#)Rat

[Omim: 600144](#)Human

[SwissProt: Q8WN96](#)Cow

[SwissProt: Q14571](#)Human

[SwissProt: Q9Z329](#)Mouse

[SwissProt: P29995](#)Rat

[Unigene: 512235](#)Human

[Unigene: 393003](#)Mouse

[Unigene: 7800](#)Mouse

[Unigene: 89152](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

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(SL4243R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining