

ITPR1 / IP3 Receptor Type 1 Antibody (aa1566-1615)
Rabbit Polyclonal Antibody
Catalog # ALS15091**Specification**

ITPR1 / IP3 Receptor Type 1 Antibody (aa1566-1615) - Product Information

Application	IF, IHC
Primary Accession	Q14643
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	314kDa KDa

ITPR1 / IP3 Receptor Type 1 Antibody (aa1566-1615) - Additional Information**Gene ID** 3708**Other Names**

Inositol 1, 4, 5-trisphosphate receptor type 1, IP3 receptor isoform 1, IP3R 1, InsP3R1, Type 1 inositol 1, 4, 5-trisphosphate receptor, Type 1 InsP3 receptor, ITPR1, INSP3R1

Target/Specificity

InsP3R1 Antibody detects endogenous levels of total InsP3R1 protein.

Reconstitution & Storage

Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions

ITPR1 / IP3 Receptor Type 1 Antibody (aa1566-1615) is for research use only and not for use in diagnostic or therapeutic procedures.

ITPR1 / IP3 Receptor Type 1 Antibody (aa1566-1615) - Protein Information**Name** ITPR1**Synonyms** INSP3R1**Function**

Intracellular channel that mediates calcium release from the endoplasmic reticulum following stimulation by inositol 1,4,5- trisphosphate (PubMed:27108797). 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).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Cytoplasmic vesicle, secretory

vesicle membrane {ECO:0000250|UniProtKB:Q9TU34}; Multi-pass membrane protein. Cytoplasm, perinuclear region. Note=Endoplasmic reticulum and secretory granules (By similarity). {ECO:0000250|UniProtKB:Q9TU34}

Tissue Location

Widely expressed..

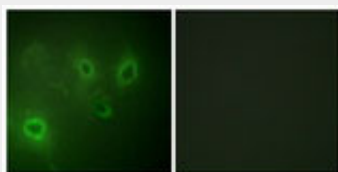
Volume

50 µl

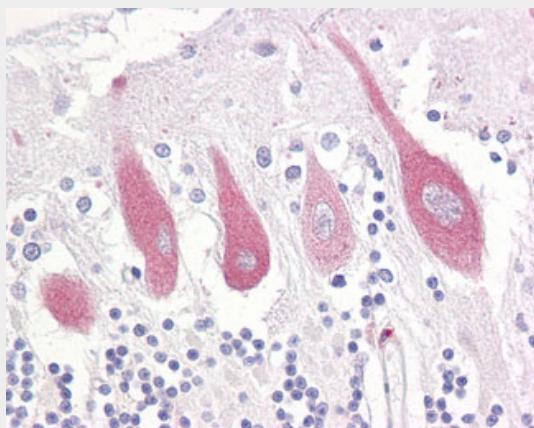
ITPR1 / IP3 Receptor Type 1 Antibody (aa1566-1615) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ITPR1 / IP3 Receptor Type 1 Antibody (aa1566-1615) - Images

Immunofluorescence of COS7 cells, using InsP3R1 Antibody.



Anti-ITPR1 antibody IHC of human brain, cerebellum.

ITPR1 / IP3 Receptor Type 1 Antibody (aa1566-1615) - Background

Intracellular channel that mediates calcium release from the endoplasmic reticulum following stimulation by inositol 1,4,5- trisphosphate. 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).

ITPR1 / IP3 Receptor Type 1 Antibody (aa1566-1615) - References

Yamada N.,et al.Biochem. J. 302:781-790(1994).
Harnick D.J.,et al.J. Biol. Chem. 270:2833-2840(1995).
Marks A.,et al.Submitted (APR-2004) to the EMBL/GenBank/DDBJ databases.
Nucifora F.C. Jr.,et al.Brain Res. Mol. Brain Res. 32:291-296(1995).
Muzny D.M.,et al.Nature 440:1194-1198(2006).