

Anti-ITPR1(Inositol 1,4,5-trisphosphate receptor type 1) Polyclonal Antibody

Cat. #: 60B509

Description:

ITPR1 (Inositol 1,4,5-trisphosphate receptor type 1) is the receptor for inositol 1,4,5-trisphosphate, a second messenger that mediates the release of intracellular calcium. The receptor contains a calcium channel in its C-terminal extremity. Its large N-terminal cytoplasmic region has the ligand-binding site in the N-terminus and modulatory sites in the middle portion immediately upstream of the channel region. ITPR1 is phosphorylated by cAMP kinase. The phosphorylation prevents the ligand-induced opening of the calcium channels. Calcium appears to inhibit ligand binding to the receptor, most probably by interacting with a distinct calcium-binding protein which then inhibits the receptor.

Immunogen/Specificity:

Polyclonal antibody produced in rabbits immunizing with a synthetic peptide corresponding to C-terminal residues of human ITPR1 (Inositol 1,4,5-trisphosphate receptor type 1)

References

Yamada,N., et al, Biochem. J. 302 (PT 3), 781-790 (1994)
Harnick,D.J., et al, J. Biol. Chem. 270 (6), 2833-2840 (1995)
Nucifora,F.C. Jr., et al, Brain Res. Mol. Brain Res. 32 (2), 291-296 (1995)
Yan,J., et al, Int. J. Radiat. Biol. 69 (5), 539-546 (1996)

Species: human, mouse, rat
Storage and Stability: at -20oC

Storage buffer:

This antibody is stored in PBS, 0.01% sodium azide and 50% glycerol.

Preparation:

Purified by antigen-specific affinity chromatography.

Applications :

ELISA

Western Blotting (1µg/ml for 2hrs)