

IP3-receptor type 1

Cat.No. 117-0P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg peptide, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 2731 to 2749 from rat IP3-receptortype1 (UniProt Id: P29994)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	117 002, 117 003
Remarks	This control peptide consists of the synthetic peptide (RIGLLGHPPPHMNVNPQQPA) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of peptide needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

**TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS**

Inositol 1, 4, 5 - trisphosphate InsP3 is an intracellular messenger that triggers release of Ca²⁺ from intracellular stores. InsP3 acts by binding to specific receptors localized to endoplasmic reticulum. There are at least three types of InsP3 receptors, of which the type 1 receptor is the most abundant. All three receptors appear to be widely expressed. Highest levels of the type 1 InsP3 receptors are found in neurons, with very high expression in the Purkinje cells of the cerebellum.

Selected General References

- Calcium signalling: how do IP3 receptors work?
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Südhof TC, Newton CL, Archer BT, Ushkaryov YA, Mignery GA
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Mignery GA, Südhof TC, Takei K, De Camilli P
Nature (1989) 342(6246): 192-5.
- Primary structure and functional expression of the inositol 1,4,5-trisphosphate-binding protein P400.
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Nature (1989) 342(6245): 32-8.