

IP3-receptor type 1

Cat.No. 117 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: not tested yet IHC: 1 : 200 up to 1 : 500 IHC-P/FFPE: 1 : 200
Immunogen	Synthetic peptide corresponding to AA 2731 to 2749 from rat IP3-receptortype1 (UniProt Id: P29994)
Reactivity	Reacts with: human (Q14643), rat (P29994), mouse (P11881), cow. Other species not tested yet.
Specificity	Specific for InsP3.
matching control	117-0P

**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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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.
Furuchi T, Yoshikawa S, Miyawaki A, Wada K, Maeda N, Mikoshiba K
Nature (1989) 342(6245): 32-8.