

IP3-receptor type 1

Cat.No. 117 002; Polyclonal rabbit antibody, 200 µl antiserum (lyophilized)

Data Sheet

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| Reconstitution/ Storage | 200 µl antiserum, lyophilized. For reconstitution add 200 µl H ₂ O, then aliquot and store at -20°C until use. |
| Applications | WB: 1 : 1000 (AP staining) IP: not tested yet ICC: not tested yet IHC: yes IHC-P/FFPE: 1 : 100 |
| 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 References SYSY Antibodies

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Morciano M, Beckhaus T, Karas M, Zimmermann H, Volkandt W
Journal of neurochemistry (2009) 108(3): 662-75. **WB**

The IP3 R Binding Protein Released With Inositol 1,4,5-Trisphosphate Is Expressed in Rodent Reproductive Tissue and Spermatozoa.
Borth H, Weber N, Meyer D, Wartenberg A, Arlt E, Zierler S, Breit A, Wennemuth G, Gudermann T, Boekhoff I
Journal of cellular physiology (2016) 231(5): 1114-29. **WB**

Selected General References

Calcium signalling: how do IP3 receptors work?
Dawson AP
Current biology : CB (1997) 7(9): R544-7.

Structure of a novel InsP3 receptor.
Südhof TC, Newton CL, Archer BT, Ushkaryov YA, Mignery GA
The EMBO journal (1991) 10(11): 3199-206.

Putative receptor for inositol 1,4,5-trisphosphate similar to ryanodine receptor.
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.
Furuichi T, Yoshikawa S, Miyawaki A, Wada K, Maeda N, Mikoshiba K
Nature (1989) 342(6245): 32-8.