

TRPC3/TRPC6/TRPC7 Polyclonal Antibody

Catalog Number    OSR00067W

Product data sheet

| Details            |  | Species Reactivity   |               |
|--------------------|--|--|---------------|
| Size               | 100 µL   | Species reactivity   | Rat           |
| Host/Isotope       | Rabbit / IgG   | Tested Applications  |               |
| Class              | Polyclonal   | Immunohistochemistry (IHC)   | 1:300-1:2,000 |
| Type               | Antibody   | Western Blot (WB)  | 1:300-1:2,000 |
| Immunogen          | A synthetic peptide from the 4th cytoplasmic domain of rat TRPC6, conjugated to an immunogenic carrier protein | * Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls. |               |
| Conjugate          | Unconjugated   |  |               |
| Form               | Lyophilized  |  |               |
| Storage Conditions | Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.                   |  |               |

Product specific information

The immunogenic sequence is homologous with the corresponding sequence derived from TRP6A, 6B and 6C proteins.

Background/Target Information

Thought to form a receptor-activated non-selective calcium permeant cation channel. Probably is operated by a phosphatidylinositol second messenger system activated by receptor tyrosine kinases or G-protein coupled receptors. Activated by diacylglycerol (DAG) in a membrane-delimited fashion, independently of protein kinase C, and by inositol-1,4,5-triphosphate receptors (ITPR) with bound IP3 (By similarity). May also be activated by internal calcium store depletion. Abundantly expressed in brain. Concentrated in cerebellar Purkinje cells and sparsely localized in cerebellar granule layer, pontine nuclei and thalamus. Lower levels detected in other tissues.

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