

## TRPC6 / Transient Receptor Potential Cation Channel Subfamily C Member 6 Antibody

Mouse Monoclonal Antibody [Clone TRPC6/7672]

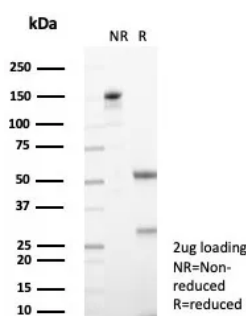
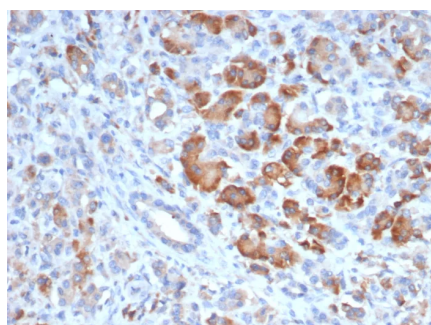
| Catalog No      | Format                            | Size     |
|-----------------|-----------------------------------|----------|
| 7225-MSM2-P0    | Purified Ab with BSA and Azide    | 200ug/ml |
| 7225-MSM2-P1    | Purified Ab with BSA and Azide    | 200ug/ml |
| 7225-MSM2-P1ABX | Purified Ab WITHOUT BSA and Azide | 1.0mg/ml |

| Applications               | Tested Dillution |
|----------------------------|------------------|
| Immunohistochemistry (IHC) | 1-2ug/ml         |

| Product Details        |   |
|------------------------|---|
| Clone                  | TRPC6/7672                                  |
| Gene Name              | TRPC6                                       |
| Immunogen              | Recombinant full-length human TRPC6 protein |
| Host                   | Mouse                                       |
| Clonality              | Monoclonal                                  |
| Isotype / Light Chain  | IgG2 / Kappa                                |
| Mol. Weight of Antigen | 50.9kDa                                     |
| Cellular Localization  | Cell surface.                               |
| Species Reactivity     | Human                                       |
| Positive Control       | Human adrenal cortex pancreas or brain.     |

*\*Optimal dilution for a specific application should be determined.*

### Product Images for TRPC6 / Transient Receptor Potential Cation Channel Subfamily C Member 6 Antibody



Formalin-fixed, paraffin-embedded human pancreas stained with TRPC6 Mouse Monoclonal Antibody (TRPC6/7672). HIER: Tris/EDTA, pH9.0, 45min. 2°C: HRP-polymer, 30min. DAB, 5min.

SDS-PAGE Analysis of Purified TRPC6 Mouse Monoclonal Antibody (TRPC6/7672). Confirmation of Purity and Integrity of Antibody.

### Specificity & Comments

Phenylalanine hydroxylase (PAH), tyrosine hydroxylase (TH) and tryptophan hydroxylase (TPH) comprise a small family of monooxygenases that use tetrahydropterine as a cofactor during the catabolism of aromatic L-amino acids. PAH, TH and TPH all contain catalytic domains with an amino-terminal regulatory domain and a short carboxy-terminal tetramerization domain. Each of these enzymes also contains a single ferrous iron atom, which is bound to two histidines and a glutamate, and is likely to be involved in the formation of the hydroxylating intermediate. TPH is both the first and rate-limiting-step in the biosynthesis of serotonin in the central nervous system and melatonin in the pineal gland. Alteration of TPH function may be a key factor in the pathology of several neuropsychiatric disorders associated with serotonin, including depression, aggression, alcoholism and schizophrenia. For instance, L-DOPA, which is used as a common therapy for Parkinson's disease (PD) patients, inhibits TPH function which, subsequently, is thought to contribute to the onset of depression in PD patients.

### Research Areas

Developmental Biology, Neuroscience, Signal Transduction

### Known Applications & Suggested Dilutions

Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT), (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined.

### Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis.

There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

### Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

### Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.