

## MEK5 Antibody

Catalog No: #21559

Package Size: #21559-1 50ul #21559-2 100ul

## Description

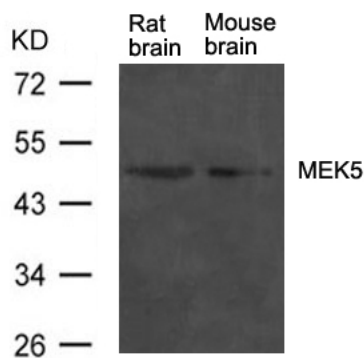
|                       |                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name          | MEK5 Antibody                                                                                                                                                                |
| Host Species          | Rabbit                                                                                                                                                                       |
| Clonality             | Polyclonal                                                                                                                                                                   |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide |
| Applications          | WB                                                                                                                                                                           |
| Species Reactivity    | Hu Ms Rt                                                                                                                                                                     |
| Specificity           | The antibody detects endogenous level of total MEK5 protein.                                                                                                                 |
| Immunogen Type        | Peptide-KLH                                                                                                                                                                  |
| Immunogen Description | Peptide sequence around aa. 311-315(K-T-Y-V-G ) derived from Rat MEK5.                                                                                                       |
| Conjugates            | Unconjugated                                                                                                                                                                 |
| Target Name           | MEK5                                                                                                                                                                         |
| Other Names           | MAP kinase kinase 5; Map2k5; MAPKK 5; MAPK/ERK kinase 5;                                                                                                                     |
| Accession No.         | Swiss-Prot: Q62862NCBI Protein: NP_001029159.1                                                                                                                               |
| Concentration         | 1.0mg/ml                                                                                                                                                                     |
| Formulation           | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                 |
| Storage               | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.                                                                                    |

## Application Details

Predicted MW: 49kd

Western blotting: 1:500

## Images



Western blot analysis of extract from rat brain and mouse brain tissue using MEK5 Antibody #21559

## Background

A family of protein kinases located upstream of the MAP kinases and responsible for their activation has been identified. The prototype member of this family, designated MAP kinase kinase, or MEK-1, specifically phosphorylates the MAP kinase regulatory threonine and tyrosine residues present in the Thr-Glu-Tyr motif of ERK. A second MEK family member, MEK-2, resembles MEK-1 in its substrate specificity. MEK-3 (or MKK-3) functions to activate p38 MAP kinase, and MEK-4 (also called SEK1 or MKK-4) activates both p38 and JNK MAP kinases. MEK-5 appears to specifically phosphorylate ERK5, whereas MEK-6 phosphorylates p38 and p38b. MEK-7 (or MKK-7) phosphorylates and activates the JNK signal transduction pathway.

Han, J., et al. 1996. J. Biol. Chem. 271: 2886-2891.

Jiang, Y., et al. 1996. J. Biol. Chem. 271: 17920-17926.

Tournier, C., et al. 1997. Proc. Natl. Acad. Sci. USA94: 7337-7442.

Holland, P.M., et al. 1997. J. Biol. Chem. 272: 24994-24998.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.