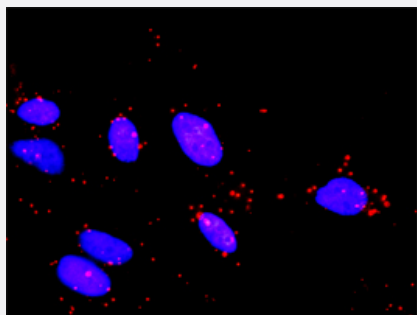


MAP2K3 & TAOK2 Protein Protein Interaction Antibody Pair

Catalog # DI0513

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between MAP2K3 and TAOK2. HeLa cells were stained with anti-MAP2K3 rabbit purified polyclonal antibody 1:1200 and anti-TAOK2 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Specification

Product Description

This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the MAP2K3 protein, and the other against the TAOK2 protein for use in [in situ Proximity Ligation Assay](#). [See Publication Reference below](#).

Reactivity

Human

Quality Control Testing

Protein protein interaction immunofluorescence result.
Representative image of Proximity Ligation Assay of protein-protein interactions between MAP2K3 and TAOK2. HeLa cells were stained with anti-MAP2K3 rabbit purified polyclonal antibody 1:1200 and anti-TAOK2 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (BlobFinder) download from The Centre for Image Analysis at Uppsala University.

Supplied Product

Antibody pair set content:
1. MAP2K3 rabbit purified polyclonal antibody (100 ug)
2. TAOK2 mouse monoclonal antibody (40 ug)
*Reagents are sufficient for at least 30-50 assays using recommended protocols.

Storage Instruction

Store reagents of the antibody pair set at -20°C or lower. Please aliquot to avoid repeated freeze-thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Applications

- *In situ* Proximity Ligation Assay (Cell)

Gene Info — MAP2K3

Entrez GeneID [5606](#)

Gene Name MAP2K3

Gene Alias MAPKK3, MEK3, MKK3, PRKMK3

Gene Description mitogen-activated protein kinase kinase 3

Omim ID [602315](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a dual specificity protein kinase that belongs to the MAP kinase family. This kinase is activated by mitogenic and environmental stress, and participates in the MAP kinase-mediated signaling cascade. It phosphorylates and thus activates MAPK14/p38-MAPK. This kinase can be activated by insulin, and is necessary for the expression of glucose transporter. Expression of RAS oncogene is found to result in the accumulation of the active form of this kinase, which thus leads to the constitutive activation of MAPK14, and confers oncogenic transformation of primary cells. The inhibition of this kinase is involved in the pathogenesis of Yersinia pseudotuberculosis. Multiple alternatively spliced transcript variants that encode distinct isoforms have been reported for this gene. [provided by RefSeq]

Other Designations

MAP kinase kinase 3|MAPK/ERK kinase 3|OTTHUMP00000166044|dual specificity mitogen activated protein kinase kinase 3

Gene Info — TAOK2

Entrez GeneID [9344](#)

Gene Name TAOK2

Gene Alias KIAA0881, MAP3K17, PSK, PSK1, TAO1, TAO2

Gene Description TAO kinase 2

Gene Ontology [Hyperlink](#)

Other Designations

prostate derived STE20-like kinase PSK|thousand and one amino acid protein kinase

Pathway

- [Amyotrophic lateral sclerosis \(ALS\)](#)
- [Fc epsilon RI signaling pathway](#)
- [GnRH signaling pathway](#)
- [MAPK signaling pathway](#)
- [MAPK signaling pathway](#)
- [Toll-like receptor signaling pathway](#)

Disease

- [Autistic Disorder](#)
- [Genetic Predisposition to Disease](#)