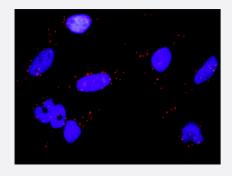


MAPK3 & RPS6KA2 Protein Protein Interaction Antibody Pair

Catalog # DI0345 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between MAPK3 and RPS6KA2. HeLa cells were stained with anti-MAPK3 rabbit purified polyclonal antibody 1:1200 and anti-RPS6KA2 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-prot ein interaction, one against the MAPK3 protein, and the other against the RPS6KA2 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 MAPK3 a nd RPS6KA2. HeLa cells were stained with anti-MAPK3 rabbit purified polyclonal antibody 1:1200 a nd anti-RPS6KA2 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. MAPK3 rabbit purified polyclonal antibody (100 ug) 2. RPS6KA2 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 tha w cycle. Reagents should be returned to -20°C storage immediately after use. |

Applications



• In situ Proximity Ligation Assay (Cell)

| Gene Info — MAPK3 | |
|--------------------|--|
| Entrez GenelD | <u>5595</u> |
| Gene Name | MAPK3 |
| Gene Alias | ERK1, HS44KDAP, HUMKER1A, MGC20180, P44ERK1, P44MAPK, PRKM3 |
| Gene Description | mitogen-activated protein kinase 3 |
| Omim ID | <u>601795</u> |
| Gene Ontology | <u>Hyperlink</u> |
| Gene Summary | The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also kno wn as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq |
| Other Designations | OTTHUMP00000174538 OTTHUMP00000174540 extracellular signal-regulated kinase 1 extrace llular signal-related kinase 1 |

| Gene Info — RPS6KA2 | |
|---------------------|---|
| Entrez GeneID | <u>6196</u> |
| Gene Name | RPS6KA2 |
| Gene Alias | HU-2, MAPKAPK1C, RSK, RSK3, S6K-alpha, S6K-alpha2, p90-RSK3, pp90RSK3 |
| Gene Description | ribosomal protein S6 kinase, 90kDa, polypeptide 2 |
| Omim ID | <u>601685</u> |
| Gene Ontology | <u>Hyperlink</u> |



Product Information

| Gene Summary | This gene encodes a member of the RSK (ribosomal S6 kinase) family of serine/threonine kinase s. This kinase contains 2 non-identical kinase catalytic domains and phosphorylates various subst rates, including members of the mitogen-activated kinase (MAPK) signalling pathway. The activity of this protein has been implicated in controlling cell growth and differentiation. Alternate transcript ional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq |
|--------------------|--|
| Other Designations | ribosomal S6 kinase 3 ribosomal protein S6 kinase alpha 2 ribosomal protein S6 kinase, 90kD, p olypeptide 2 |

Pathway

- Acute myeloid leukemia
- Adherens junction
- Axon guidance
- B cell receptor signaling pathway
- Bladder cancer
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Colorectal cancer
- Dorso-ventral axis formation
- Endometrial cancer
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Gap junction
- Glioma
- GnRH signaling pathway
- Insulin signaling pathway
- Long-term depression



- Long-term potentiation
- Long-term potentiation
- MAPK signaling pathway
- MAPK signaling pathway
- Melanogenesis
- Melanoma
- mTOR signaling pathway
- mTOR signaling pathway
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Pancreatic cancer
- Pathways in cancer
- Prion diseases
- Prostate cancer
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- T cell receptor signaling pathway
- TGF-beta signaling pathway
- Thyroid cancer
- Toll-like receptor signaling pathway
- Type II diabetes mellitus
- Vascular smooth muscle contraction
- VEGF signaling pathway



Disease

- Asthma
- Autistic Disorder
- Disease Models
- Genetic Predisposition to Disease
- Tobacco Use Disorder