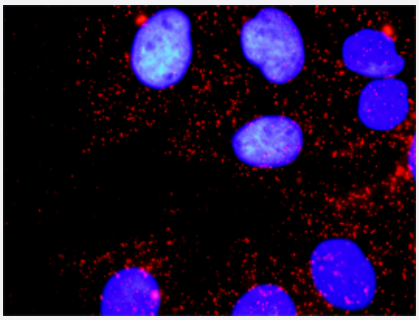
MAPK3 & MAPK1 Protein Protein Interaction Antibody Pair

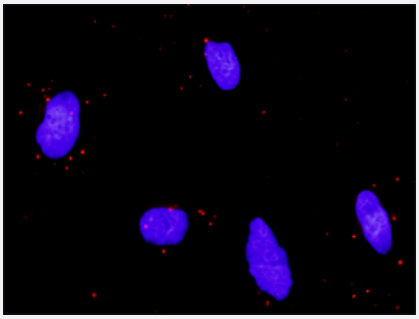
Catalog # DI0391 Size 1 Set

Applications



In situ Proximity Ligation Assay (Cell)

Representative image of Proximity Ligation Assay of protein-protein interactions between MAPK3 and MAPK1. Huh7 cells were stained with anti-MAPK3 rabbit purified polyclonal antibody 1:1200 and anti-MAPK1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Representative image of Proximity Ligation Analysis of protein-protein interactions between MAPK3 and MAPK1. HeLa cells were stained with anti-MAPK3 rabbit purified polyclonal antibody 1:1200 and anti-MAPK1 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 MAPK3 protein, and the other against the MAPK1 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 Analysis of protein-protein interactions between MAPK3 and MAPK1. HeLa cells were stained with anti-MAPK3 rabbit purified polyclonal antibody 1:1200 and anti-MAPK1 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.

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Supplied Products	Antibody pair set content: 1. MAPK3 rabbit purified polyclonal antibody (100 ug) 2. MAPK1 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)

  Representative image of Proximity Ligation Assay of protein-protein interactions between MAPK3 and MAPK1. Huh7 cells were stained with anti-MAPK3 rabbit purified polyclonal antibody 1:1200 and anti-MAPK1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — MAPK1

Entrez GeneID	5594
Gene Name	MAPK1
Gene Alias	ERK, ERK2, ERT1, MAPK2, P42MAPK, PRKM1, PRKM2, p38, p40, p41, p41mapk
Gene Description	mitogen-activated protein kinase 1
Omim ID	176948
Gene Ontology	Hyperlink
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 as an integration point for multiple bioche mical signals, and are involved in a wide variety of cellular processes such as proliferation, differe ntiation, transcription regulation and development. The activation of this kinase requires its phosp horylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the sti mulated cells, where it phosphorylates nuclear targets. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000174492|extracellular signal-regulated kinase 2|extracellular signal-regulated kin ase-2|mitogen-activated protein kinase 2|protein tyrosine kinase ERK2

Gene Info — MAPK3

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Entrez GeneID	5595
Gene Name	MAPK3
Gene Alias	ERK1, HS44KDAP, HUMKER1A, MGC20180, P44ERK1, P44MAPK, PRKM3
Gene Description	mitogen-activated protein kinase 3
Omim ID	601795
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known 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|extracellular signal-related kinase 1

Pathway

- Acute myeloid leukemia
- Acute myeloid leukemia
- Adherens junction
- Adherens junction
- Axon guidance
- Axon guidance
- B cell receptor signaling pathway
- B cell receptor signaling pathway
- Bladder cancer
- Bladder cancer
- Chemokine signaling pathway
- Chemokine signaling pathway
- Chronic myeloid leukemia

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- Chronic myeloid leukemia
- Colorectal cancer
- Colorectal cancer
- Dorso-ventral axis formation
- Dorso-ventral axis formation
- Endometrial cancer
- Endometrial cancer
- ErbB signaling pathway
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Focal adhesion
- Gap junction
- Gap junction
- Glioma
- Glioma
- GnRH signaling pathway
- GnRH signaling pathway
- Insulin signaling pathway
- Insulin signaling pathway
- Long-term depression
- Long-term depression
- Long-term potentiation

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- Long-term potentiation
- MAPK signaling pathway
- MAPK signaling pathway
- Melanogenesis
- Melanogenesis
- Melanoma
- Melanoma
- mTOR signaling pathway
- mTOR signaling pathway
- Natural killer cell mediated cytotoxicity
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Non-small cell lung cancer
- Pancreatic cancer
- Pancreatic cancer
- Pathways in cancer
- Pathways in cancer
- Prion diseases
- Prion diseases
- Prostate cancer
- Prostate cancer
- Regulation of actin cytoskeleton
- Regulation of actin cytoskeleton
- Renal cell carcinoma

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- Renal cell carcinoma
- T cell receptor signaling pathway
- T cell receptor signaling pathway
- TGF-beta signaling pathway
- TGF-beta signaling pathway
- Thyroid cancer
- Thyroid cancer
- Toll-like receptor signaling pathway
- Toll-like receptor signaling pathway
- Type II diabetes mellitus
- Type II diabetes mellitus
- Vascular smooth muscle contraction
- Vascular smooth muscle contraction
- VEGF signaling pathway
- VEGF signaling pathway

Disease

- Anorexia Nervosa
- Asthma
- Asthma
- Autistic Disorder
- Bulimia
- Cardiovascular Diseases
- Diabetes Mellitus
- Disease Models
- Disease Models

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- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- HIV Infections
- Kidney Failure
- Narcolepsy
- Ovarian Neoplasms
- Thyroid Neoplasms

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