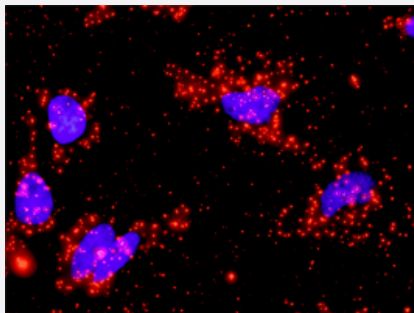


HSPB1 & MAPKAPK3 Protein Protein Interaction Antibody Pair

Catalog # DI0339

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between HSPB1 and MAPKAPK3. HeLa cells were stained with anti-HSPB1 rabbit purified polyclonal antibody 1:1200 and anti-MAPKAPK3 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 HSPB1 protein, and the other against the MAPKAPK3 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 HSPB1 and MAPKAPK3. HeLa cells were stained with anti-HSPB1 rabbit purified polyclonal antibody 1:1200 and anti-MAPKAPK3 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. HSPB1 rabbit purified polyclonal antibody (100 ug)
2. MAPKAPK3 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 — HSPB1

Entrez GeneID	3315
Gene Name	HSPB1
Gene Alias	CMT2F, DKFZp586P1322, HMN2B, HS.76067, HSP27, HSP28, Hsp25, SRP27
Gene Description	heat shock 27kDa protein 1
Omim ID	602195 606595 608634
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is induced by environmental stress and developmental changes . The encoded protein is involved in stress resistance and actin organization and translocates from the cytoplasm to the nucleus upon stress induction. Defects in this gene are a cause of Charcot-Marie-Tooth disease type 2F (CMT2F) and distal hereditary motor neuropathy (dHMN). [provided by RefSeq]
Other Designations	OTTHUMP00000024846 estrogen-regulated 24 kDa protein heat shock 27kD protein 1 heat shock protein beta-1 stress-responsive protein 27

Gene Info — MAPKAPK3

Entrez GeneID	7867
Gene Name	MAPKAPK3
Gene Alias	3PK, MAPKAP3
Gene Description	mitogen-activated protein kinase-activated protein kinase 3
Omim ID	602130
Gene Ontology	Hyperlink

Gene Summary

This gene encodes a member of the Ser/Thr protein kinase family. This kinase functions as a mitogen-activated protein kinase (MAP kinase)- activated protein kinase. MAP kinases are also known as extracellular signal-regulated kinases (ERKs), act as an integration point for multiple biochemical signals. This kinase was shown to be activated by growth inducers and stress stimulation of cells. In vitro studies demonstrated that ERK, p38 MAP kinase and Jun N-terminal kinase were all able to phosphorylate and activate this kinase, which suggested the role of this kinase as an integrative element of signaling in both mitogen and stress responses. This kinase was reported to interact with, phosphorylate and repress the activity of E47, which is a basic helix-loop-helix transcription factor known to be involved in the regulation of tissue-specific gene expression and cell differentiation. [provided by RefSeq]

Other Designations

MAPKAP kinase 3

Pathway

- [MAPK signaling pathway](#)
- [MAPK signaling pathway](#)
- [VEGF signaling pathway](#)
- [VEGF signaling pathway](#)

Disease

- [Adenocarcinoma](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Charcot-Marie-Tooth Disease](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis C](#)
- [Lung Neoplasms](#)

- [Schizophrenia](#)
- [Small Cell Lung Carcinoma](#)