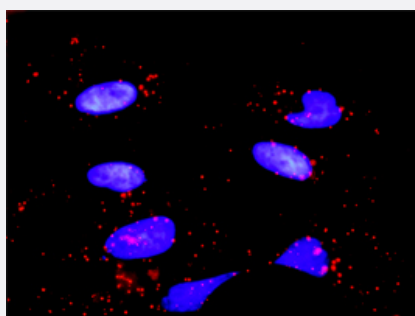


# MAPKAPK5 & EIF4EBP1 Protein Protein Interaction Antibody Pair

Catalog # DI0158

Size 1 Set

## Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between MAPKAPK5 and EIF4EBP1. HeLa cells were stained with anti-MAPKAPK5 rabbit purified polyclonal antibody 1:1200 and anti-EIF4EBP1 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 MAPKAPK5 protein, and the other against the EIF4EBP1 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 MAPKAPK5 and EIF4EBP1. HeLa cells were stained with anti-MAPKAPK5 rabbit purified polyclonal antibody 1:1200 and anti-EIF4EBP1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex. The images were analyzed using an optimized freeware (Blob Finder) download from The Centre for Image Analysis at Uppsala University.

### Supplied Product

Antibody pair set content:  
1. MAPKAPK5 rabbit purified polyclonal antibody (100 ug)  
2. EIF4EBP1 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 — EIF4EBP1

Entrez GeneID [1978](#)

Gene Name EIF4EBP1

Gene Alias 4E-BP1, 4EBP1, BP-1, MGC4316, PHAS-I

Gene Description eukaryotic translation initiation factor 4E binding protein 1

Omim ID [602223](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** This gene encodes one member of a family of translation repressor proteins. The protein directly interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation. [provided by RefSeq]

**Other Designations** eIF4E-binding protein 1|phosphorylated heat- and acid-stable protein regulated by insulin 1

## Gene Info — MAPKAPK5

Entrez GeneID [8550](#)

Gene Name MAPKAPK5

Gene Alias PRAK

Gene Description mitogen-activated protein kinase-activated protein kinase 5

Omim ID [606723](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

The protein encoded by this gene is a member of the serine/threonine kinase family. In response to cellular stress and proinflammatory cytokines, this kinase is activated through its phosphorylation by MAP kinases including MAPK1/ERK, MAPK14/p38-alpha, and MAPK11/p38-beta. In vitro, this kinase phosphorylates heat shock protein HSP27 at its physiologically relevant sites. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. [provided by RefSeq]

**Other Designations**

p38-regulated/activated protein kinase

## Pathway

- [Acute myeloid leukemia](#)
- [ErbB signaling pathway](#)
- [Insulin signaling pathway](#)
- [MAPK signaling pathway](#)
- [mTOR signaling pathway](#)

## Disease

- [Alzheimer disease](#)
- [Genetic Predisposition to Disease](#)
- [Multiple System Atrophy](#)
- [Obesity](#)