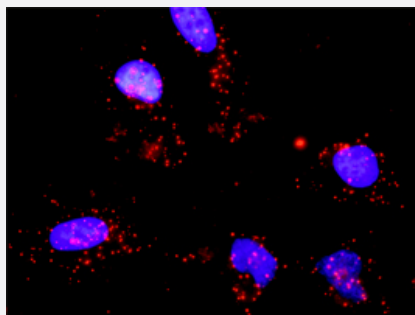


# BUB1 & EIF4EBP1 Protein Protein Interaction Antibody Pair

Catalog # DI0156

Size 1 Set

## Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between BUB1 and EIF4EBP1. HeLa cells were stained with anti-BUB1 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 BUB1 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 BUB1 and EIF4EBP1. HeLa cells were stained with anti-BUB1 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.

### Supplied Product

Antibody pair set content:  
1. BUB1 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 — BUB1

Entrez GeneID	<a href="#">699</a>
Gene Name	BUB1
Gene Alias	BUB1A, BUB1L, hBUB1
Gene Description	budding uninhibited by benzimidazoles 1 homolog (yeast)
Omim ID	<a href="#">602452</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	This gene encodes a kinase involved in spindle checkpoint function. The kinase functions in part by phosphorylating a member of the mitotic checkpoint complex and activating the spindle checkpoint. Mutations in this gene have been associated with aneuploidy and several forms of cancer. [provided by RefSeq]
Other Designations	BUB1 budding uninhibited by benzimidazoles 1 homolog budding uninhibited by benzimidazoles 1 mitotic spindle checkpoint kinase putative serine/threonine-protein kinase

## Gene Info — EIF4EBP1

Entrez GeneID	<a href="#">1978</a>
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	<a href="#">602223</a>
Gene Ontology	<a href="#">Hyperlink</a>
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

**Pathway**

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

**Disease**

- [Alcoholism](#)
- [Alzheimer disease](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Conduct Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Multiple System Atrophy](#)
- [Obesity](#)
- [Ovarian Neoplasms](#)