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BUB1 & EIF4EBP1 Protein Protein Interaction Antibody Pair

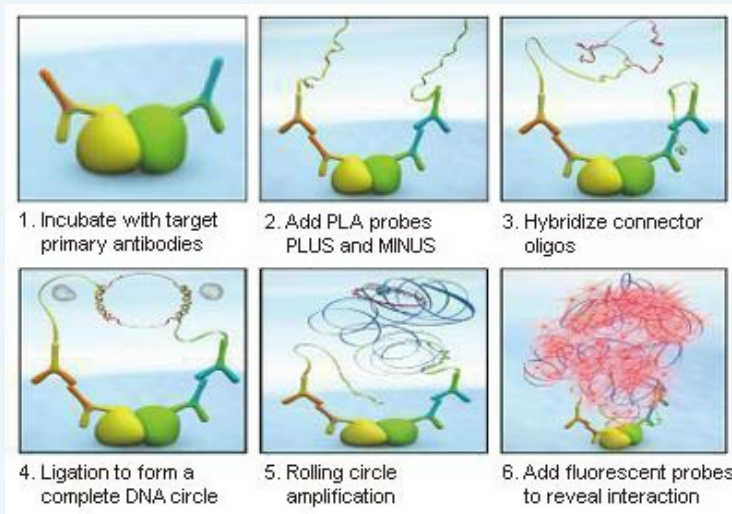
Catalog # : DI0156

規格 : [1 Set]

List All

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.

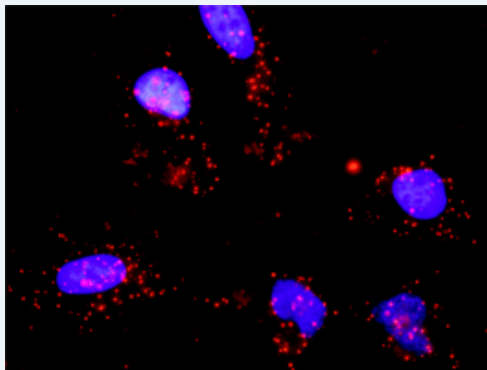


Application Image

In situ Proximity Ligation Assay (Cell)

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 (20 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.

MSDS:

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Publication Reference

1. [An analysis of protein-protein interactions in cross-talk pathways reveals CRKL as a novel prognostic marker in hepatocellular carcinoma.](#)
Liu CH, Chen TC, Chau GY, Jan YH, Chen CH, Hsu CN, Lin KT, Juang YL, Lu PJ, Cheng HC, Chen MH, Chang CF, Ting YS, Kao CY, Hsiao M, Huang CY. Mol Cell Proteomics. 2013 Feb 8. [Epub ahead of print]

Applications

In situ Proximity Ligation Assay (Cell)

[BUB1](#) [EIF4EBP1](#)

Gene Information

Entrez GeneID: [699](#)

Gene Name: BUB1

Gene Alias: BUB1A,BUB1L,hBUB1

Gene Description: budding uninhibited by benzimidazoles 1 homolog (yeast)

Omim ID: [602452](#)

Gene Ontology: [Hyperlink](#)

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 Information

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](#)

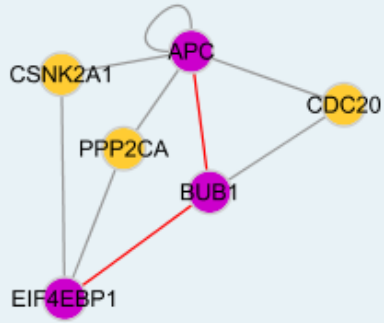
Gene Ontology: [Hyperlink](#)

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

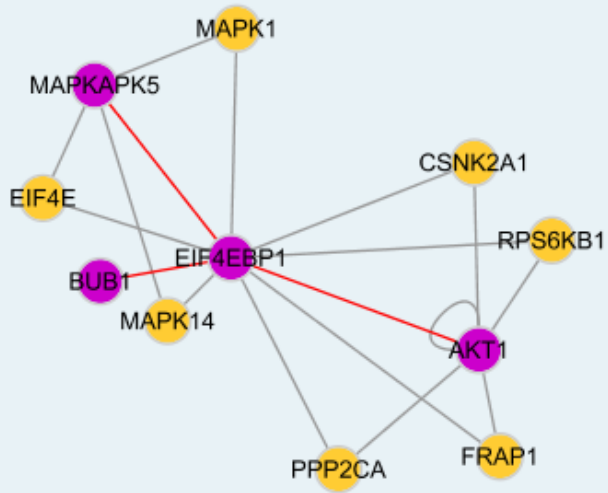
translation. [provided by RefSeq]

Other eIF4E-binding protein 1, phosphorylated heat- and acid-stable protein
Designations: regulated by insulin 1

Interactome 1



Interactome 2



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