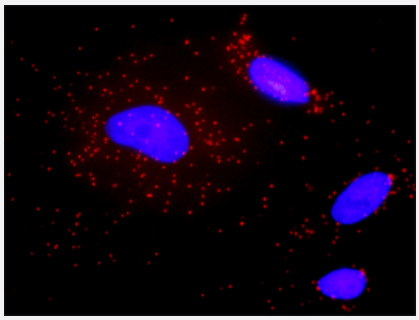
MAP3K7 & CLTC Protein Protein Interaction Antibody Pair

Catalog # DI0104 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between MAP3K7 and CLTC. HeLa cells were stained with anti-MAP3K7 rabbit purified polyclonal antibody 1:1200 and anti-CLTC 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 MAP3K7 protein, and the other against the CLTC 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 MAP3K7 and CLTC. HeLa cells were stained with anti-MAP3K7 rabbit purified polyclonal antibody 1:1200 and anti-CLTC 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. MAP3K7 rabbit purified polyclonal antibody (100 ug) 2. CLTC 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 — CLTC

Entrez GeneID	1213
Gene Name	CLTC
Gene Alias	CHC, CHC17, CLH-17, CLTCL2, Hc, KIAA0034
Gene Description	clathrin, heavy chain (Hc)
Omim ID	118955
Gene Ontology	Hyperlink
Gene Summary	Clathrin is a major protein component of the cytoplasmic face of intracellular organelles, called co ated vesicles and coated pits. These specialized organelles are involved in the intracellular traffic king of receptors and endocytosis of a variety of macromolecules. The basic subunit of the clathri n coat is composed of three heavy chains and three light chains. [provided by RefSeq
Other Designations	clathrin heavy chain 1|clathrin, heavy polypeptide (Hc)|clathrin, heavy polypeptide-like 2

Gene Info — MAP3K7

Entrez GeneID	6885
Gene Name	MAP3K7
Gene Alias	TAK1, TGF1a
Gene Description	mitogen-activated protein kinase kinase kinase 7
Omim ID	602614
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BM P), and controls a variety of cell functions including transcription regulation and apoptosis. In resp onse to IL-1, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3 K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. This kinase can also activate MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environm ental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq

Other Designations	OTTHUMP00000016870|OTTHUMP00000016871|OTTHUMP00000016872|OTTHUMP00000016873|TGF-beta activated kinase 1|transforming growth factor-beta-activated kinase 1

Pathway

- Adherens junction
- Endocytosis
- Lysosome
- MAPK signaling pathway
- T cell receptor signaling pathway
- Toll-like receptor signaling pathway
- Wnt signaling pathway

Disease

- Arthritis
- Cardiovascular Diseases
- Crohn Disease
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Inflammatory Bowel Diseases
- Narcolepsy
- Tobacco Use Disorder