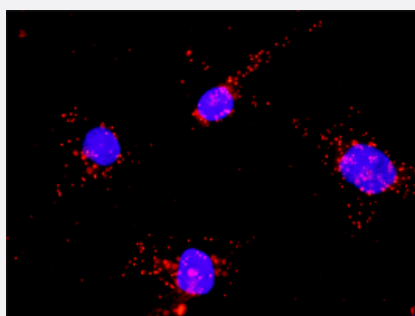


APPL1 & TRAF2 Protein Protein Interaction Antibody Pair

Catalog # DI0440

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between APPL1 and TRAF2. HeLa cells were stained with anti-APPL1 rabbit purified polyclonal antibody 1:1200 and anti-TRAF2 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 APPL1 protein, and the other against the TRAF2 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 APPL1 and TRAF2. HeLa cells were stained with anti-APPL1 rabbit purified polyclonal antibody 1:1200 and anti-TRAF2 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. APPL1 rabbit purified polyclonal antibody (100 ug)
2. TRAF2 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 — TRAF2

Entrez GeneID [7186](#)

Gene Name TRAF2

Gene Alias MGC:45012, TRAP, TRAP3

Gene Description TNF receptor-associated factor 2

Omim ID [601895](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a member of the TNF receptor associated factor (TRAF) protein family. TRAF proteins associate with, and mediate the signal transduction from members of the TNF receptor superfamily. This protein directly interacts with TNF receptors, and forms a heterodimeric complex with TRAF1. This protein is required for TNF-alpha-mediated activation of MAPK8/JNK and NF-kappaB. The protein complex formed by this protein and TRAF1 interacts with the inhibitor-of-apoptosis proteins (IAPs), and functions as a mediator of the anti-apoptotic signals from TNF receptors. The interaction of this protein with TRADD, a TNF receptor associated apoptotic signal transducer, ensures the recruitment of IAPs for the direct inhibition of caspase activation. BIRC2/c-IAP1, an apoptosis inhibitor possessing ubiquitin ligase activity, can ubiquitinate and induce the degradation of this protein, and thus potentiate TNF-induced apoptosis. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of only one transcript has been determined. [provided by RefSeq]

Other Designations OTTHUMP00000022625|OTTHUMP00000064745|tumor necrosis factor type 2 receptor associated protein 3

Gene Info — APPL1

Entrez GeneID [26060](#)

Gene Name APPL1

Gene Alias APPL, DIP13alpha

Gene Description adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1

Omim ID [604299](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

The protein encoded by this gene has been shown to be involved in the regulation of cell proliferation, and in the crosstalk between the adiponectin signalling and insulin signalling pathways. The encoded protein binds many other proteins, including RAB5A, DCC, AKT2, PIK3CA, adiponectin receptors, and proteins of the NuRD/MeCP1 complex. This protein is found associated with endosomal membranes, but can be released by EGF and translocated to the nucleus. [provided by RefSeq]

Other Designations

AKT2 interactor|adaptor protein containing pH domain, PTB domain and leucine zipper motif 1|signaling adaptor protein DIP13alpha

Pathway

- [Adipocytokine signaling pathway](#)
- [Apoptosis](#)
- [Colorectal cancer](#)
- [MAPK signaling pathway](#)
- [Pathways in cancer](#)
- [Pathways in cancer](#)
- [Small cell lung cancer](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Connective Tissue Diseases](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetes Mellitus](#)
- [Ductus Arteriosus](#)
- [Dyslipidemias](#)
- [Edema](#)

- [Fetal Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Infant](#)
- [Infection](#)
- [Inflammation](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Metabolic Syndrome X](#)
- [Multiple Myeloma](#)
- [Musculoskeletal Diseases](#)
- [Neoplasms](#)
- [Occupational Diseases](#)
- [Osteoporosis](#)
- [Prediabetic State](#)
- [Pregnancy Complications](#)
- [Premature Birth](#)
- [Retinopathy of Prematurity](#)
- [Skin Diseases](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)