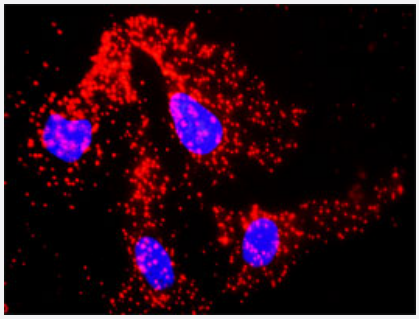
TRAF2 & ACTG1 Protein Protein Interaction Antibody Pair

Catalog # DI0041 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between TRAF2 and ACTG1. HeLa cells were stained with anti-TRAF2 rabbit purified polyclonal antibody 1:1200 and anti-ACTG1 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 TRAF2 protein, and the other against the ACTG1 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 TRAF2 and ACTG1. HeLa cells were stained with anti-TRAF2 rabbit purified polyclonal antibody 1:1200 and anti-ACTG1 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 Products	Antibody pair set content: 1. TRAF2 rabbit purified polyclonal antibody (100 ug) 2. ACTG1 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

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- *In situ* Proximity Ligation Assay (Cell)

Gene Info — ACTG1

Entrez GeneID	71
Gene Name	ACTG1
Gene Alias	ACT, ACTG, DFNA20, DFNA26
Gene Description	actin, gamma 1
Omim ID	102560 604717
Gene Ontology	Hyperlink
Gene Summary	Actins are highly conserved proteins that are involved in various types of cell motility, and mainten ance of the cytoskeleton. In vertebrates, three main groups of actin isoforms, alpha, beta and gam ma have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins co-exist in most cell types as component s of the cytoskeleton, and as mediators of internal cell motility. Actin, gamma 1, encoded by this g ene, is a cytoplasmic actin found in nonmuscle cells. [provided by RefSeq
Other Designations	actin, cytoplasmic 2|actin, gamma 1 propeptide|cytoskeletal gamma-actin

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

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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 unbiquitinate 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

Pathway

- Adherens junction
- Adipocytokine signaling pathway
- Apoptosis
- Arrhythmogenic right ventricular cardiomyopathy (ARVC)
- Focal adhesion
- Hypertrophic cardiomyopathy (HCM)
- Leukocyte transendothelial migration
- MAPK signaling pathway
- Pathogenic Escherichia coli infection - EHEC
- Pathways in cancer
- Regulation of actin cytoskeleton
- Small cell lung cancer
- Tight junction
- Vibrio cholerae infection

Disease

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- Alzheimer disease
- Cardiovascular Diseases
- Connective Tissue Diseases
- Diabetes Complications
- Diabetes Mellitus
- Ductus Arteriosus
- Edema
- Fetal Diseases
- Genetic Predisposition to Disease
- Hematologic Diseases
- HIV Infections
- Hodgkin Disease
- Infant
- Infection
- Inflammation
- Lymphoma
- Lymphoproliferative Disorders
- Metabolic Syndrome X
- Multiple Myeloma
- Musculoskeletal Diseases
- Neoplasms
- Occupational Diseases
- Osteoporosis
- Pregnancy Complications
- Premature Birth

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- Retinopathy of Prematurity
- Skin Diseases
- Waldenstrom Macroglobulinemia
- Werner syndrome

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