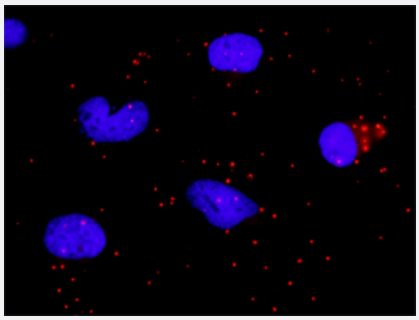
BCL2L1 & RAF1 Protein Protein Interaction Antibody Pair

Catalog # DI0283 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between BCL2L1 and RAF1. HeLa cells were stained with anti-BCL2L1 rabbit purified polyclonal antibody 1:1200 and anti-RAF1 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 BCL2L1 protein, and the other against the RAF1 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 BCL2L1 and RAF1. HeLa cells were stained with anti-BCL2L1 rabbit purified polyclonal antibody 1:1200 and anti-RAF1 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. BCL2L1 rabbit purified polyclonal antibody (100 ug) 2. RAF1 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 — BCL2L1

Entrez GeneID	598
Gene Name	BCL2L1
Gene Alias	BCL-XL/S, BCL2L, BCLX, Bcl-X, DKFZp781P2092, bcl-xL, bcl-xS
Gene Description	BCL2-like 1
Omim ID	600039
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the BCL-2 protein family. BCL-2 family members for m hetero- or homodimers and act as anti- or pro-apoptotic regulators that are involved in a wide v ariety of cellular activities. The proteins encoded by this gene are located at the outer mitochondri al membrane, and have been shown to regulate outer mitochondrial membrane channel (VDAC) opening. VDAC regulates mitochondrial membrane potential, and thus controls the production of r eactive oxygen species and release of cytochrome C by mitochondria, both of which are the pote nt inducers of cell apoptosis. Two alternatively spliced transcript variants, which encode distinct is oforms, have been reported. The longer isoform acts as an apoptotic inhibitor and the shorter for m acts as an apoptotic activator. [provided by RefSeq
Other Designations	OTTHUMP00000030550|OTTHUMP00000030551|OTTHUMP00000030553

Gene Info — RAF1

Entrez GeneID	5894
Gene Name	RAF1
Gene Alias	CRAF, NS5, Raf-1, c-Raf
Gene Description	v-raf-1 murine leukemia viral oncogene homolog 1
Omim ID	164760 611553 611554
Gene Ontology	Hyperlink

Gene Summary	This gene is the cellular homolog of viral raf gene (v-raf). The encoded protein is a MAP kinase ki nase kinase (MAP3K), which functions downstream of the Ras family of membrane associated G TPases to which it binds directly. Once activated, the cellular RAF1 protein can phosphorylate to activate the dual specificity protein kinases MEK1 and MEK2, which in turn phosphorylate to activ ate the serine/threonine specific protein kinases, ERK1 and ERK2. Activated ERKs are pleiotropi c effectors of cell physiology and play an important role in the control of gene expression involved i n the cell division cycle, apoptosis, cell differentiation and cell migration. Mutations in this gene ar e associated with Noonan syndrome 5 and LEOPARD syndrome 2. [provided by RefSeq
Other Designations	Oncogene RAF1|raf proto-oncogene serine/threonine protein kinase

Pathway

- Acute myeloid leukemia
- Amyotrophic lateral sclerosis (ALS)
- Apoptosis
- B cell receptor signaling pathway
- Bladder cancer
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Chronic myeloid leukemia
- Colorectal cancer
- Endometrial cancer
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Gap junction
- Glioma
- GnRH signaling pathway
- Insulin signaling pathway

- Jak-STAT signaling pathway
- Long-term depression
- Long-term potentiation
- MAPK signaling pathway
- Melanogenesis
- Melanoma
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Non-small cell lung cancer
- Pancreatic cancer
- Pancreatic cancer
- Pathways in cancer
- Pathways in cancer
- Prostate cancer
- Regulation of actin cytoskeleton
- Renal cell carcinoma
- Small cell lung cancer
- T cell receptor signaling pathway
- Vascular smooth muscle contraction
- VEGF signaling pathway

Disease

- Abnormalities
- Adenocarcinoma
- Alzheimer Disease
- Amnesia

- Arrhythmias
- Articulation Disorders
- Cardiovascular Diseases
- Cognition
- Cognition Disorders
- Cognition Disorders
- Colorectal Neoplasms
- Developmental Disabilities
- Diabetes Mellitus
- Disease Progression
- Dyslexia
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Glioma
- Hearing
- Heart Defects
- Hematologic Diseases
- Hodgkin Disease
- Hypertrophy
- Language Disorders
- LEOPARD Syndrome
- Lymphoma
- Lymphoproliferative Disorders
- Memory

- Motor Skills
- Multiple Sclerosis
- Neoplasm Metastasis
- Neuropsychological Tests
- Noonan Syndrome
- Occupational Diseases
- Ovarian Neoplasms
- Prostatic Neoplasms
- Skin Abnormalities
- Thyroid Neoplasms
- Urinary Bladder Neoplasms
- Waldenstrom Macroglobulinemia
- Werner syndrome