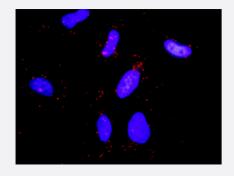


CBL & PLCG1 Protein Protein Interaction Antibody Pair

Catalog # DI0545 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between CBL and PLCG1. HeLa cells were stained with anti-CBL rabbit purified polyclonal antibody 1:1200 and anti-PLCG1 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-prot ein interaction, one against the CBL protein, and the other against the PLCG1 protein for use in <u>in sit</u> <u>u Proximity Ligation Assay</u> . 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 CBL and PLCG1. HeLa cells were stained with anti-CBL rabbit purified polyclonal antibody 1:1200 and anti-P LCG1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein int eraction 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. CBL rabbit purified polyclonal antibody (100 ug) 2. PLCG1 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 tha w cycle. Reagents should be returned to -20°C storage immediately after use.

Applications



• In situ Proximity Ligation Assay (Cell)

Gene Info — CBL	
Entrez GenelD	<u>867</u>
Gene Name	CBL
Gene Alias	C-CBL, CBL2, RNF55
Gene Description	Cas-Br-M (murine) ecotropic retroviral transforming sequence
Omim ID	<u>165360</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	The cbl oncogene was first identified as part of a transforming retrovirus which induces mouse pr e-B and pro-B cell lymphomas. As an adaptor protein for receptor protein-tyrosine kinases, it posi tively regulates receptor protein-tyrosine kinase ubiquitination in a manner dependent upon its var iant SH2 and RING finger domains. Ubiquitination of receptor protein-tyrosine kinases terminates signaling by marking active receptors for degradation. [provided by RefSeq
Other Designations	oncogene CBL2

Gene Info — PLCG1	
Entrez GeneID	<u>5335</u>
Gene Name	PLCG1
Gene Alias	PLC-II, PLC1, PLC148, PLCgamma1
Gene Description	phospholipase C, gamma 1
Omim ID	172420
Gene Ontology	<u>Hyperlink</u>



Product Information

Gene Summary

The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diac ylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of receptor-mediated tyrosine kinase activators. For example, when activated by SRC, the encoded protein causes the Ras guanine nucle otide exchange factor RasGRP1 to translocate to the Golgi, where it activates Ras. Also, this protein has been shown to be a major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq

Other Designations

1-phosphatidyl-D-myo-inositol-4,5-bisphosphate|1-phosphatidylinositol-4,5-bisphosphate phosph odiesterase gamma 1|OTTHUMP0000031787|OTTHUMP00000178982|PLC-gamma-1|inositol trisphosphohydrolase|monophosphatidylinositol phosphodiesterase|phosphatidylinositol

Pathway

- Calcium signaling pathway
- Chronic myeloid leukemia
- Endocytosis
- Epithelial cell signaling in Helicobacter pylori infection
- ErbB signaling pathway
- ErbB signaling pathway
- Fc epsilon RI signaling pathway
- Fc gamma R-mediated phagocytosis
- Glioma
- Inositol phosphate metabolism
- Insulin signaling pathway
- Jak-STAT signaling pathway
- Leukocyte transendothelial migration
- Metabolic pathways
- Natural killer cell mediated cytotoxicity
- Neurotrophin signaling pathway
- Non-small cell lung cancer



- Pathways in cancer
- Pathways in cancer
- Phosphatidylinositol signaling system
- T cell receptor signaling pathway
- T cell receptor signaling pathway
- <u>Ubiquitin mediated proteolysis</u>
- VEGF signaling pathway
- Vibrio cholerae infection

Disease

- Bipolar Disorder
- Cardiovascular Diseases
- Diabetes Mellitus
- Diabetes Mellitus
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- HIV Infections
- Kidney Failure
- Leukemia
- Mental Disorders
- Multiple Sclerosis
- Tobacco Use Disorder