CCND3 & AREG Protein Protein Interaction Antibody Pair

Catalog # DI0064 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between CCND3 and AREG. HeLa cells were stained with anti-CCND3 rabbit purified polyclonal antibody 1:1200 and anti-AREG 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 CCND3 protein, and the other against the AREG protein for use in <u>in</u> <u>situ</u> 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 CCND3 a nd AREG. HeLa cells were stained with anti-CCND3 rabbit purified polyclonal antibody 1:1200 and a nti-AREG 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. CCND3 rabbit purified polyclonal antibody (100 ug) 2. AREG 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 — AREG	
Entrez GenelD	<u>374</u>
Gene Name	AREG
Gene Alias	AR, CRDGF, MGC13647, SDGF
Gene Description	amphiregulin
Omim ID	<u>104640</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	The protein encoded by this gene is a member of the epidermal growth factor family. It is an autoc rine growth factor as well as a mitogen for astrocytes, Schwann cells, and fibroblasts. It is related t o epidermal growth factor (EGF) and transforming growth factor alpha (TGF-alpha). This protein i nteracts with the EGF/TGF-alpha receptor to promote the growth of normal epithelial cells and inhi bits the growth of certain aggressive carcinoma cell lines. This encoded protein is associated wit h a psoriasis-like skin phenotype. [provided by RefSeq
Other Designations	OTTHUMP00000160473 colorectum cell-derived growth factor schwannoma-derived growth facto

Gene Info — CCND3

Entrez GenelD	<u>896</u>
Gene Name	CCND3
Gene Alias	-
Gene Description	cyclin D3
Omim ID	<u>123834</u>
Gene Ontology	<u>Hyperlink</u>

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Gene Summary	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins fu nction as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a co mplex with and functions as a regulatory subunit of CDK4 or CDK6, whose activity is required for cell cycle G1/S transition. This protein has been shown to interact with and be involved in the phos phorylation of tumor suppressor protein Rb. The CDK4 activity associated with this cyclin was rep orted to be necessary for cell cycle progression through G2 phase into mitosis after UV radiation. Several transcript variants encoding different isoforms have been found for this gene. [provided b y RefSeq
Other Designations	D3-type cyclin G1/S-specific cyclin D3 OTTHUMP00000016390

Pathway

- Cell cycle
- ErbB signaling pathway
- Focal adhesion
- Jak-STAT signaling pathway
- p53 signaling pathway
- Wnt signaling pathway

Disease

- Adenocarcinoma
- <u>Alzheimer disease</u>
- Breast cancer
- Breast Neoplasms
- <u>Cerebral Amyloid Angiopathy</u>
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- <u>Kidney Failure</u>

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- Lung Neoplasms
- <u>Neoplasm Invasiveness</u>
- <u>Neuroblastoma</u>
- Ovarian cancer
- Ovarian Neoplasms
- Ovarian Neoplasms
- Pulmonary Disease
- Urinary Bladder Neoplasms
- Werner syndrome