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ACTN1 & CAMK2A Protein Protein Interaction Antibody Pair

Catalog # : DI0110

規格 : [1 Set]

List All

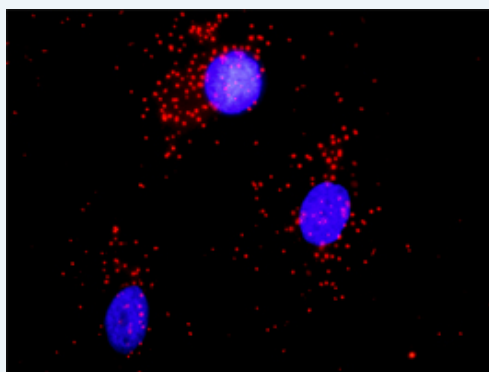
Specification

Product Description: This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the ACTN1 protein, and the other against the CAMK2A 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 ACTN1 and CAMK2A. HeLa cells were stained with anti-ACTN1 rabbit purified polyclonal antibody 1:1200 and anti-CAMK2A 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. ACTN1 rabbit purified polyclonal antibody (20 ug)
 2. CAMK2A 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 -

Application Image

In situ Proximity Ligation Assay (Cell)

20°C storage immediately after use.

MSDS:

 [Download](#)

Publication Reference

1. [An analysis of protein-protein interactions in cross-talk pathways reveals CRKL as a novel prognostic marker in hepatocellular carcinoma.](#)
Liu CH, Chen TC, Chau GY, Jan YH, Chen CH, Hsu CN, Lin KT, Juang YL, Lu PJ, Cheng HC, Chen MH, Chang CF, Ting YS, Kao CY, Hsiao M, Huang CY. Mol Cell Proteomics. 2013 Feb 8. [Epub ahead of print]

Applications

In situ Proximity Ligation Assay (Cell)

[ACTN1](#) [CAMK2A](#)

Gene Information

Entrez GeneID: [87](#)

Gene Name: ACTN1

Gene Alias: FLJ40884

Gene Description: actinin, alpha 1

Omim ID: [102575](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: Alpha actinins belong to the spectrin gene superfamily which represents a diverse group of cytoskeletal proteins, including the alpha and beta spectrins and dystrophins. Alpha actinin is an actin-binding protein with multiple roles in different cell types. In nonmuscle cells, the cytoskeletal isoform is found along microfilament bundles and adherens-type junctions, where it is involved in binding actin to the membrane. In contrast, skeletal, cardiac, and smooth muscle isoforms are localized to the Z-disc and analogous dense bodies, where they help anchor the myofibrillar actin filaments. This gene encodes a nonmuscle, cytoskeletal, alpha actinin isoform and maps to the same site as the structurally similar erythroid beta spectrin gene. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations: F-actin cross-linking protein,actinin 1 smooth muscle,alpha-actinin 1

Gene Information

Entrez GeneID: [815](#)

Gene Name: CAMK2A

Gene Alias: CAMKA,KIAA0968

Gene Description: calcium/calmodulin-dependent protein kinase II alpha

Omim ID: [114078](#)

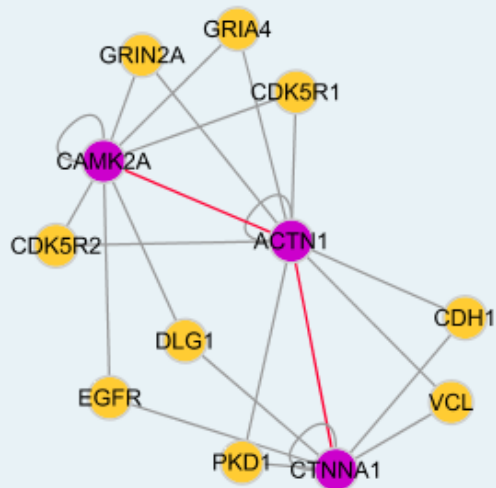
Gene Ontology: [Hyperlink](#)

Gene Summary: The product of this gene belongs to the serine/threonine protein

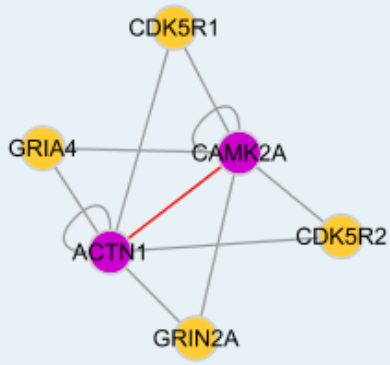
kinases family, and to the Ca(2+)/calmodulin-dependent protein kinases subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. This calcium calmodulin-dependent protein kinase is composed of four different chains: alpha, beta, gamma, and delta. The alpha chain encoded by this gene is required for hippocampal long-term potentiation (LTP) and spatial learning. In addition to its calcium-calmodulin (CaM)-dependent activity, this protein can undergo autophosphorylation, resulting in CaM-independent activity. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq]

Other Designations: CaM kinase II alpha subunit,CaM-kinase II alpha chain,CaMK-II alpha subunit,CaMKIIalpha,OTTHUMP00000165787,OTTHUMP00000165788,calcium/calmodulin-dependent protein kinase (CaM kinase) II alpha,calcium/calmodulin-dependent protein kinase II alpha-B subunit

Interactome 1



Interactome 2



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