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GNAS & ADCY2 Protein Protein Interaction Antibody Pair

Catalog # : DI0044

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 GNAS protein, and the other against the ADCY2 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

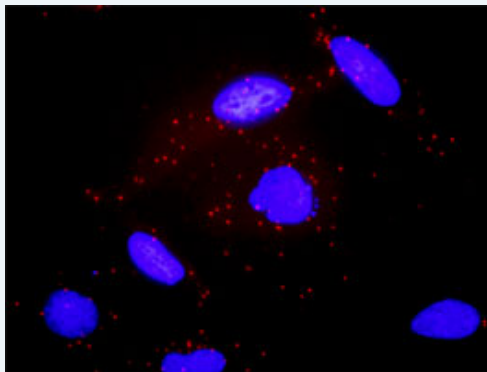
Application Image

In situ Proximity Ligation Assay (Cell)



Reactivity: Human

Quality Control Testing: Protein protein interaction immunofluorescence result.



Representative image of Proximity Ligation Assay of protein-protein interactions between GNAS and ADCY2. HeLa cells were stained with anti-GNAS rabbit purified polyclonal antibody 1:1200 and anti-ADCY2 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. GNAS rabbit purified polyclonal antibody (20 ug)
 2. ADCY2 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.

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)

[ADCY2](#) [GNAS](#)

Gene Information

Entrez GeneID: [2778](#)

Gene Name: GNAS

Gene Alias: AHO,C20orf45,GNAS1,GPSA,GSA,GSP,MGC33735,NESP,PHP1A,PHP1B,POH,dJ309F20.1.1,dJ806M20.3.3

Gene Description: GNAS complex locus

Omim ID: [102200](#), [103580](#), [139320](#), [166350](#), [174800](#), [603233](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This locus has a highly complex imprinted expression pattern. It gives rise to maternally, paternally, and biallelically expressed transcripts that are derived from four alternative promoters and 5' exons. Some transcripts contains a differentially methylated region (DMR) at their 5' exons, and this DMR is commonly found in imprinted genes and correlates with transcript expression. An antisense transcript is produced from an overlapping locus on the opposite strand. One of the transcripts produced from this locus, and the antisense transcript, are paternally expressed noncoding RNAs, and may regulate imprinting in this region. In addition, one of the transcripts contains a second overlapping ORF, which encodes a structurally unrelated protein - Alex. Alternative splicing of downstream exons is also observed, which results in different forms of the stimulatory G-protein alpha subunit, a key element of the classical signal transduction pathway linking receptor-ligand interactions with the activation of adenylyl cyclase and a variety of cellular responses. Multiple transcript variants encoding different isoforms have been found for this gene. Mutations in this gene result in pseudohypoparathyroidism type 1a, pseudohypoparathyroidism type 1b, Albright hereditary osteodystrophy, pseudopseudohypoparathyroidism, McCune-Albright syndrome, progressive osseous heteroplasia, polyostotic fibrous dysplasia of bone, and some pituitary tumors. [provided by RefSeq]

Other Designations: OTTHUMP00000031740,OTTHUMP00000031756,OTTHUMP00000196026,OTTHUMP00000196030,adenylate cyclase-stimulating G alpha protein,guanine nucleotide binding protein (G protein), alpha stimulating activity polypeptide 1,guanine nucleotide regulatory protein,neuroe

Gene Information

Entrez GeneID: [108](#)

Gene Name: ADCY2

Gene Alias: AC2,FLJ16822,FLJ45092,HBAC2,KIAA1060,MGC133314

Gene Description: adenylate cyclase 2 (brain)

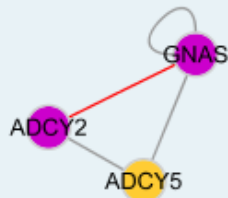
Omim ID: [103071](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene encodes a member of the family of adenylate cyclases, which are membrane-associated enzymes that catalyze the formation of the secondary messenger cyclic adenosine monophosphate (cAMP). This enzyme is insensitive to Ca(2+)/calmodulin, and is stimulated by the G protein beta and gamma subunit complex. [provided by RefSeq]

Other Designations: 3',5'-cyclic AMP synthetase,ATP pyrophosphate-lyase,adenylate cyclase 2,adenylate cyclase II,adenylyl cyclase 2,type II adenylate cyclase

Interactome 1



Interactome 2



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