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STK11 & PRKAA2 Protein Protein Interaction Antibody Pair

Catalog # : DI0500

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 STK11 protein, and the other against the PRKAA2 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

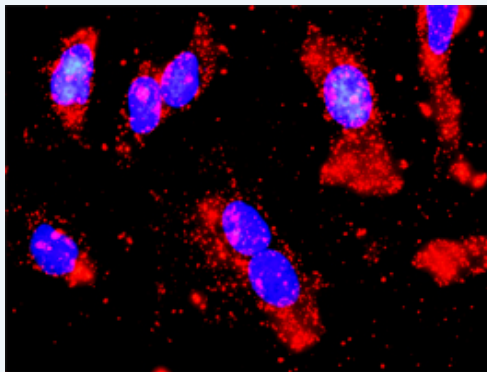
Application Image

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 STK11 and PRKAA2. HeLa cells were stained with anti-STK11 rabbit purified polyclonal antibody 1:1200 and anti-PRKAA2 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. STK11 rabbit purified polyclonal antibody (20 ug)
 2. PRKAA2 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:

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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)

[PRKAA2](#) [STK11](#)

Gene Information

Entrez GeneID: [6794](#)

Gene Name: STK11

Gene Alias: LKB1,PJS

Gene Description: serine/threonine kinase 11

Omim ID: [175200](#), [273300](#), [602216](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: This gene, which encodes a member of the serine/threonine kinase family, regulates cell polarity and functions as a tumor suppressor. Mutations in this gene have been associated with Peutz-Jeghers syndrome, an autosomal dominant disorder characterized by the growth of polyps in the gastrointestinal tract, pigmented macules on the skin and mouth, and other neoplasms. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq]

Other Designations: polarization-related protein LKB1,serine/threonine protein kinase 11

Gene Information

Entrez GeneID: [5563](#)

Gene Name: PRKAA2

Gene Alias: AMPK,AMPK2,PRKAA

Gene Description: protein kinase, AMP-activated, alpha 2 catalytic subunit

Omim ID: [600497](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: The protein encoded by this gene is a catalytic subunit of the AMP-activated protein kinase (AMPK). AMPK is a heterotrimer consisting of an alpha catalytic subunit, and non-catalytic beta and gamma subunits. AMPK is an important energy-sensing enzyme that monitors cellular energy status. In response to cellular metabolic stresses, AMPK is activated, and thus phosphorylates and inactivates acetyl-CoA

carboxylase (ACC) and beta-hydroxy beta-methylglutaryl-CoA reductase (HMGCR), key enzymes involved in regulating de novo biosynthesis of fatty acid and cholesterol. Studies of the mouse counterpart suggest that this catalytic subunit may control whole-body insulin sensitivity and is necessary for maintaining myocardial energy homeostasis during ischemia. [provided by RefSeq

Other 5'-AMP-activated protein kinase, catalytic alpha-2 chain,AMP-activated
Designations: protein kinase alpha 2 catalytic subunit,AMPK-alpha-2
chain,OTTHUMP00000009993

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