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APBB1(Phospho S175) & APBB1 Protein Phosphorylation Antibody Pair

Catalog # : DP0056

規格 : [1 Set]

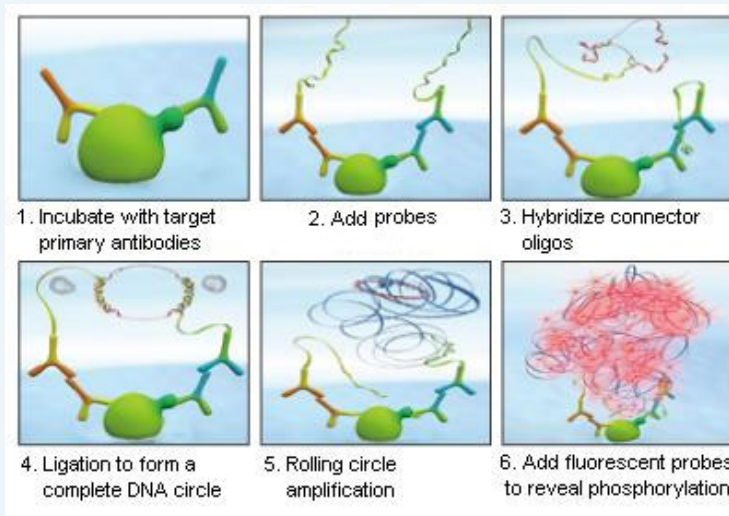
List All

Specification

Product Description: This protein phosphorylation antibody pair set comes with two antibodies, one against the APBB1 protein, and the other against the specific S175 phosphorylated site of APBB1 for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

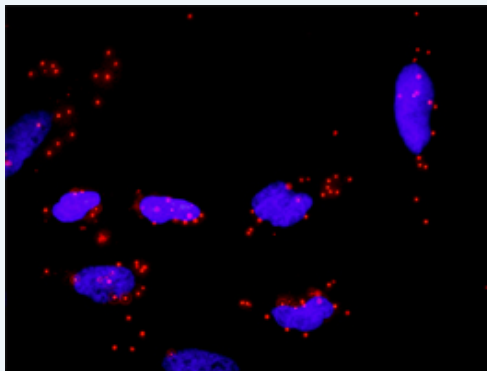
Application Image

In situ Proximity Ligation Assay (Cell)



Reactivity: Human

Quality Control Testing: Dual recognition immunofluorescence result.



Representative image of Proximity Ligation Assay of protein phosphorylation. HeLa cells were stained with dual recognition antibody pair set, rabbit polyclonal antibody 1:1200 and mouse purified polyclonal antibody 1:50. Each red dot represents one single phosphorylated protein. 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. Phospho-APBB1 S175 rabbit polyclonal antibody (20 ul)
 With 0.09% sodium azide.
 2. APBB1 mouse purified polyclonal antibody (40 ug)
 In 1x PBS, pH 7.2
 *Reagents are sufficient for at least 30-50 assays using recommended protocols.

Storage Store reagents of the antibody pair set at -20°C or lower. Please aliquot
Instruction: to avoid repeated freeze thaw cycle. Reagents should be returned to -20°C storage immediately after use.

Publication Reference

1. [In situ detection of phosphorylated platelet-derived growth factor receptor beta using a generalized proximity ligation method.](#)
Jarvius M, Paulsson J, Weibrecht I, Leuchowius KJ, Andersson AC, Wahlby C, Gullberg M, Botling J, Sjoblom T, Markova B, Ostman A, Landegren U, Soderberg O.
Mol Cell Proteomics. 2007 Sep;6(9):1500-9. Epub 2007 Jun 12.
2. [Direct observation of individual endogenous protein complexes in situ by proximity ligation.](#)
Soderberg O, Gullberg M, Jarvius M, Ridderstrale K, Leuchowius KJ, Jarvius J, Wester K, Hydbring P, Bahram F, Larsson LG, and Landegren U.
Nat Methods. 2006 Dec;3(12):995-1000. Epub 2006 Oct 29.
3. [Cytokine detection by antibody-based proximity ligation.](#)
Gullberg M, Gustafsdottir SM, Schallmeiner E, Jarvius J, Bjarnegard M, Betsholtz C, Landegren U, and Fredriksson S.
Proc Natl Acad Sci U S A. 2004 Jun 1;101(22):8420-4. Epub 2004 May 21.
4. [Protein detection using proximity-dependent DNA ligation assays.](#)
Fredriksson S, Gullberg M, Jarvius J, Olsson C, Pietras K, Gustafsdottir SM, Ostman A, and Landegren U.
Nat Biotechnol. 2002 May;20(5):473-7.
5. [Highly specific detection of phosphorylated proteins by Duolink](#)
Mats Gullberg and Ann-Catrin Andersson
Nature Methods 6. 2009

Applications

In situ Proximity Ligation Assay (Cell)

Gene Information

Entrez GeneID: [322](#)

Gene Name: APBB1

Gene Alias: FE65,MGC:9072,RIR

Gene Description: amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65)

Omim ID: [602709](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: The protein encoded by this gene is a member of the Fe65 protein family. It is an adaptor protein localized in the nucleus. It interacts with the Alzheimer's disease amyloid precursor protein (APP), transcription factor CP2/LSF/LBP1 and the low-density lipoprotein receptor-related protein. APP functions as a cytosolic anchoring site that can prevent the gene product's nuclear translocation. This encoded protein could play an important role in the pathogenesis of Alzheimer's disease. It is thought to regulate transcription. Also it is observed to block cell cycle progression by downregulating thymidylate synthase expression. Multiple alternatively spliced transcript variants have been described for this gene but some of their full length sequence is not known. [provided by RefSeq]

Other Designations: adaptor protein FE65a2, amyloid beta A4 precursor protein-binding, family B, member 1, stat-like protein

Gene Pathway

[Alzheimer's disease](#)

Related Disease

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