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EIF4E(Phospho S209) & EIF4E Protein Phosphorylation Antibody Pair

Catalog # : DP0268

規格 : [1 Set]

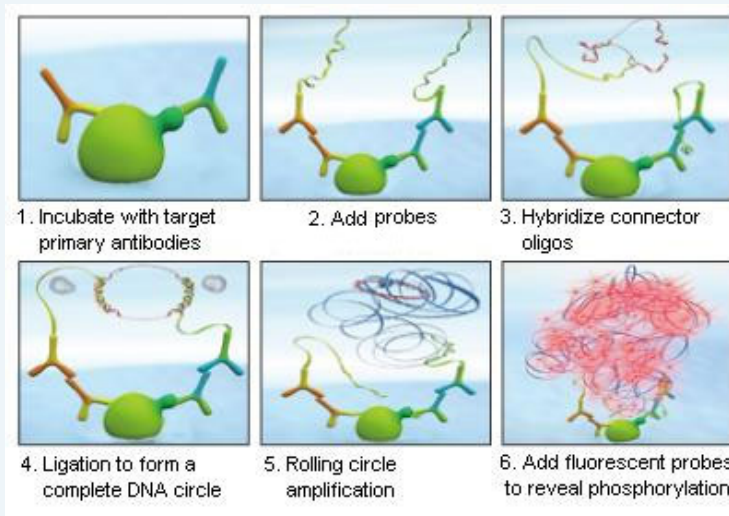
List All

Specification

Product Description: This protein phosphorylation antibody pair set comes with two antibodies, one against the EIF4E protein, and the other against the specific S209 phosphorylated site of EIF4E for use in *in situ* Proximity Ligation Assay. See Publication Reference below.

Application Image

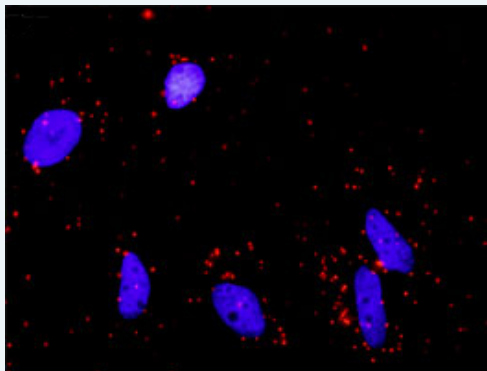
In situ Proximity Ligation Assay (Cell)



Reactivity: Human

Quality Control Testing: Dual recognition immunofluorescence result.

Testing:



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-EIF4E S209 rabbit polyclonal antibody (20 ul)
 In PBS, 150 mM NaCl, pH 7.4 (0.02% sodium azide, 50% glycerol)
 2. EIF4E 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: [1977](#)

Gene Name: EIF4E

Gene Alias: CBP, EIF4E1, EIF4EL1, EIF4F, MGC111573

Gene Description: eukaryotic translation initiation factor 4E

Omim ID: [133440](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: All eukaryotic cellular mRNAs are blocked at their 5-prime ends with the 7-methylguanosine cap structure, m7GpppX (where X is any nucleotide). This structure is involved in several cellular processes including enhanced translational efficiency, splicing, mRNA stability, and RNA nuclear export. EIF4E is a eukaryotic translation initiation factor involved in directing ribosomes to the cap structure of mRNAs. It is a 24-kD polypeptide that exists as both a free form and as part of a multiprotein complex termed EIF4F. The EIF4E polypeptide is the rate-limiting component of the eukaryotic translation apparatus and is involved in the mRNA-ribosome binding step of eukaryotic protein synthesis. The other subunits of EIF4F are a 50-kD polypeptide, termed EIF4A (see MIM 601102), that possesses ATPase and RNA helicase activities, and a 220-kD polypeptide, EIF4G (MIM 600495) (Rychlik et al., 1987 [PubMed 3469651]).[supplied by OMIM

Other Designations: eIF-4F 25 kDa subunit, eukaryotic translation initiation factor 4E-like 1, mRNA cap-binding protein

Gene Pathway

[Insulin signaling pathway](#) [mTOR signaling pathway](#)

Related Disease

[Tobacco Use Disorder](#)

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