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- Expressversand

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HSPB1 & F13A1 Protein Protein Interaction Antibody Pair

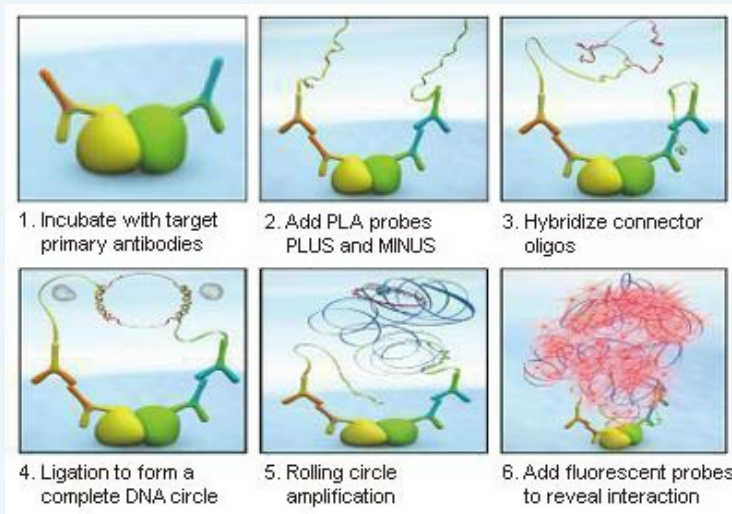
Catalog # : DI0007

規格 : [1 Set]

List All

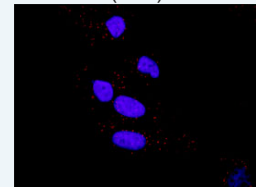
Specification

Product Description: This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the HSPB1 protein, and the other against the F13A1 protein for use in *in situ* Proximity Ligation Assay. See Publication Reference below.



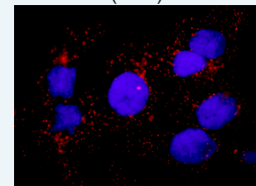
Application Image

In situ Proximity Ligation Assay (Cell)



[enlarge](#)

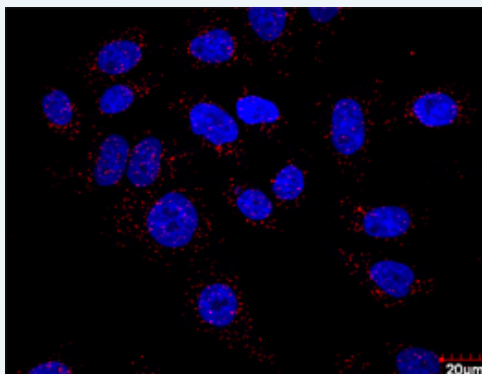
In situ Proximity Ligation Assay (Cell)



[enlarge](#)

Reactivity: Human

Quality Control Testing: Protein protein interaction immunofluorescence result.



Representative image of Proximity Ligation Analysis of protein-protein interactions between HSPB1 and F13A1. HeLa cells were stained with anti-HSPB1 rabbit purified polyclonal antibody 1:100 and anti-F13A1 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. HSPB1 rabbit purified polyclonal antibody (20 ug)
 2. F13A1 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:

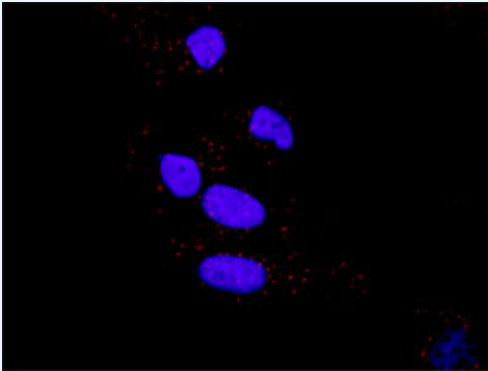
 [Download](#)

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]

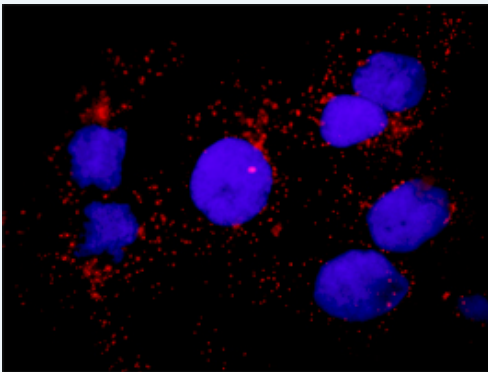
Applications

In situ Proximity Ligation Assay (Cell)



Representative image of Proximity Ligation Assay of protein-protein interactions between HSPB1 and F13A1. PC-3 cells were stained with anti-HSPB1 rabbit purified polyclonal antibody 1:100 and anti-F13A1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

In situ Proximity Ligation Assay (Cell)



Representative image of Proximity Ligation Assay of protein-protein interactions between HSPB1 and F13A1. Huh7 cells were stained with anti-HSPB1 rabbit purified polyclonal antibody 1:1200 and anti-F13A1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

[F13A1](#) [HSPB1](#)

Gene Information

Entrez GeneID: [3315](#)

Gene Name: HSPB1

Gene Alias: CMT2F, DKFZp586P1322, HMN2B, HS.76067, HSP27, HSP28, Hsp25, SRP27

Gene Description: heat shock 27kDa protein 1

Omim ID: [602195](#), [606595](#), [608634](#)

Gene Ontology: [Hyperlink](#)

Gene Summary: The protein encoded by this gene is induced by environmental stress and developmental changes. The encoded protein is involved in stress resistance and actin organization and translocates from the cytoplasm to the nucleus upon stress induction. Defects in this gene are a cause of Charcot-Marie-Tooth disease type 2F (CMT2F) and distal hereditary motor neuropathy (dHMN). [provided by RefSeq]

Other Designations: OTTHUMP00000024846,estrogen-regulated 24 kDa protein,heat shock 27kD protein 1,heat shock protein beta-1,stress-responsive protein 27

Gene Information

Entrez GeneID: [2162](#)

Gene Name: F13A1

Gene Alias: F13A

Gene Description: coagulation factor XIII, A1 polypeptide

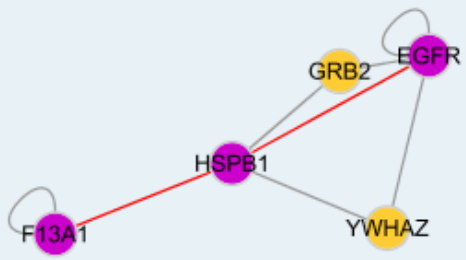
Omim ID: [134570](#)

Gene Ontology: [Hyperlink](#)

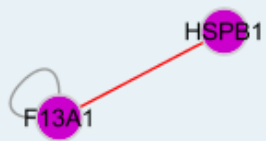
Gene Summary: This gene encodes the coagulation factor XIII A subunit. Coagulation factor XIII is the last zymogen to become activated in the blood coagulation cascade. Plasma factor XIII is a heterotetramer composed of 2 A subunits and 2 B subunits. The A subunits have catalytic function, and the B subunits do not have enzymatic activity and may serve as plasma carrier molecules. Platelet factor XIII is comprised only of 2 A subunits, which are identical to those of plasma origin. Upon cleavage of the activation peptide by thrombin and in the presence of calcium ion, the plasma factor XIII dissociates its B subunits and yields the same active enzyme, factor XIIIa, as platelet factor XIII. This enzyme acts as a transglutaminase to catalyze the formation of gamma-glutamyl-epsilon-lysine crosslinking between fibrin molecules, thus stabilizing the fibrin clot. It also crosslinks alpha-2-plasmin inhibitor, or fibronectin, to the alpha chains of fibrin. Factor XIII deficiency is classified into two categories: type I deficiency, characterized by the lack of both the A and B subunits; and type II deficiency, characterized by the lack of the A subunit alone. These defects can result in a lifelong bleeding tendency, defective wound healing, and habitual abortion. [provided by RefSeq]

Other Designations: FSF, A subunit,TGase,ba525O21.1 (coagulation factor XIII, A1 polypeptide),coagulation factor XIII A1 subunit,coagulation factor XIII, A polypeptide,factor XIIIa,fibrin stabilizing factor, A subunit,fibrinolygase,protein-glutamine gamma-glutamyltransferase

Interactome 1



Interactome 2



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