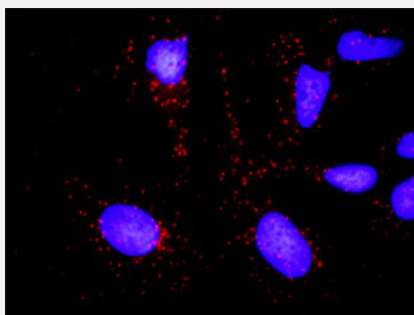


KLK3 & A2M Protein Protein Interaction Antibody Pair

Catalog # DI0036

Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between KLK3 and A2M. HeLa cells were stained with anti-KLK3 rabbit purified polyclonal antibody 1:1200 and anti-A2M 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.

Specification

Product Description

This protein protein interaction antibody pair set comes with two antibodies to detect the protein-protein interaction, one against the KLK3 protein, and the other against the A2M protein for use in [in situ Proximity Ligation Assay](#). [See Publication Reference below](#).

Reactivity

Human

Quality Control Testing

Protein protein interaction immunofluorescence result.
Representative image of Proximity Ligation Assay of protein-protein interactions between KLK3 and A2M. HeLa cells were stained with anti-KLK3 rabbit purified polyclonal antibody 1:1200 and anti-A2M 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. KLK3 rabbit purified polyclonal antibody (100 ug)
2. A2M 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.

Applications

- *In situ* Proximity Ligation Assay (Cell)

Gene Info — A2M

Entrez GeneID	2
Gene Name	A2M
Gene Alias	CPAMD5, DKFZp779B086, FWP007, S863-7
Gene Description	alpha-2-macroglobulin
Omim ID	103950 104300
Gene Ontology	Hyperlink
Gene Summary	Alpha-2-macroglobulin is a protease inhibitor and cytokine transporter. It inhibits many proteases, including trypsin, thrombin and collagenase. A2M is implicated in Alzheimer disease (AD) due to its ability to mediate the clearance and degradation of A-beta, the major component of beta-amyloid deposits. [provided by RefSeq]
Other Designations	-

Gene Info — KLK3

Entrez GeneID	354
Gene Name	KLK3
Gene Alias	APS, KLK2A1, PSA, hK3
Gene Description	kallikrein-related peptidase 3
Omim ID	176820
Gene Ontology	Hyperlink
Gene Summary	Kallikreins are a subgroup of serine proteases having diverse physiological functions. Growing evidence suggests that many kallikreins are implicated in carcinogenesis and some have potential as novel cancer and other disease biomarkers. This gene is one of the fifteen kallikrein subfamily members located in a cluster on chromosome 19. Its protein product is a protease present in seminal plasma. It is thought to function normally in the liquefaction of seminal coagulum, presumably by hydrolysis of the high molecular mass seminal vesicle protein. Serum level of this protein, called PSA in the clinical setting, is useful in the diagnosis and monitoring of prostatic carcinoma. Alternate splicing of this gene generates several transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations

P-30 antigen|gamma-seminoprotein|kallikrein 3, (prostate specific antigen)|prostate specific antigen|semenogelase|seminin

Pathway

- [Complement and coagulation cascades](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)

Disease

- [Alzheimer disease](#)
- [Amyloidosis](#)
- [Arthritis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Cardiovascular Diseases](#)
- [Cognition Disorders](#)
- [Dementia](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Progression](#)
- [Diseases in Twins](#)
- [Edema](#)
- [Edema](#)

- [Essential tremor](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis C](#)
- [Kidney Failure](#)
- [Liver Cirrhosis](#)
- [Lymphatic Metastasis](#)
- [Macular Degeneration](#)
- [Memory Disorders](#)
- [Metabolic Syndrome X](#)
- [Multiple Sclerosis](#)
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- [Parkinson disease](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)