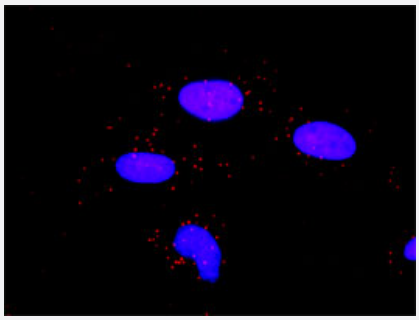
MMP2 & A2M Protein Protein Interaction Antibody Pair

Catalog # DI0038 Size 1 Set

Applications



Representative image of Proximity Ligation Assay of protein-protein interactions between MMP2 and A2M. HeLa cells were stained with anti-MMP2 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 MMP2 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 MMP2 and A2M. HeLa cells were stained with anti-MMP2 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 Products	Antibody pair set content: 1. MMP2 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

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- *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 i ts ability to mediate the clearance and degradation of A-beta, the major component of beta-amylo id deposits. [provided by RefSeq
Other Designations	-

Gene Info — MMP2

Entrez GeneID	4313
Gene Name	MMP2
Gene Alias	CLG4, CLG4A, MMP-II, MONA, TBE-1
Gene Description	matrix metallopeptidase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)
Omim ID	120360 277950 605156
Gene Ontology	Hyperlink
Gene Summary	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellul ar matrix in normal physiological processes, such as embryonic development, reproduction, and ti ssue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMP's are secreted as inactive proproteins which are activated when cleaved by extracellular proteinase s. This gene encodes an enzyme which degrades type IV collagen, the major structural componen t of basement membranes. The enzyme plays a role in endometrial menstrual breakdown, regulati on of vascularization and the inflammatory response. Mutations in this gene have been associate d with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Two transcri pt variants encoding different isoforms have been found for this gene. [provided by RefSeq

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Other Designations	collagenase type IV-A|matrix metalloproteinase 2|matrix metalloproteinase-II|neutrophil gelatinase

Pathway

- Bladder cancer
- Complement and coagulation cascades
- GnRH signaling pathway
- Leukocyte transendothelial migration
- Pathways in cancer

Disease

- Acute Disease
- Adenocarcinoma
- Alzheimer disease
- Alzheimer disease
- Amyloidosis
- Aortic Aneurysm
- Arthritis
- Arthritis
- Atherosclerosis
- Atrial Fibrillation
- Breast cancer
- Breast Neoplasms
- Bronchopulmonary Dysplasia
- Carcinoma
- Cardiac Output
- Cardiovascular Diseases

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- Cardiovascular Diseases
- Carotid Artery Diseases
- Carotid Stenosis
- Cervical Intraepithelial Neoplasia
- Chorioamnionitis
- Chronic Disease
- Cleft Lip
- Cleft Palate
- Cognition Disorders
- Colitis
- Colorectal Neoplasms
- Connective Tissue Diseases
- Constriction
- Coronary Aneurysm
- Coronary Artery Disease
- Coronary Disease
- Crohn Disease
- Dementia
- Diabetes Complications
- Diabetes Complications
- Diabetes Mellitus
- Diabetes Mellitus
- Diabetic Angiopathies
- Diabetic Retinopathy
- Disease
- Disease Progression

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- Disease Progression
- Disease Susceptibility
- Diseases in Twins
- Edema
- Edema
- Endometrial Neoplasms
- Endometriosis
- Esophageal Neoplasms
- Essential tremor
- Exfoliation Syndrome
- Fetal Diseases
- Fetal Growth Retardation
- Fetal Membranes
- Fractures
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Glaucoma
- Graft Occlusion
- Head and Neck Neoplasms
- Heart Failure
- Helicobacter Infections
- Hepatitis C
- Hepatitis C
- Hypersensitivity
- Hypertension
- Hypertrophy

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- Infection
- Inflammation
- Intervertebral Disk Displacement
- Intracranial Aneurysm
- Kidney Failure
- Kidney Failure
- Liver Cirrhosis
- Liver Cirrhosis
- Liver Neoplasms
- Lung Neoplasms
- Lymphoma
- Macular Degeneration
- Macular Degeneration
- Malignant melanoma
- Melanoma
- Memory Disorders
- Metabolic Syndrome X
- Metabolic Syndrome X
- Metaplasia
- Mouth Neoplasms
- Mucocutaneous Lymph Node Syndrome
- Multiple Sclerosis
- Multiple Sclerosis
- Musculoskeletal Diseases
- Myocardial Infarction
- Myocardial Infarction

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- Myopia
- Nasal Polyps
- Nasopharyngeal Neoplasms
- Neoplasm
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasms
- Neoplasms
- Neovascularization
- Obesity
- Obstetric Labor
- Oral Submucous Fibrosis
- Osteoarthritis
- Osteolysis
- Osteoporosis
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Parapsoriasis
- Parkinson disease
- Periodontitis
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms

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- Prosthesis-Related Infections
- Psoriasis
- Pulmonary Disease
- Pulmonary Fibrosis
- Recurrence
- Rhinitis
- Scleroderma
- Sinusitis
- Skin Diseases
- Skin Neoplasms
- Spinal Diseases
- Stomach Neoplasms
- Stroke
- Subarachnoid Hemorrhage
- Urinary Bladder Neoplasms
- Uterine Cervical Neoplasms
- Uterine Diseases

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