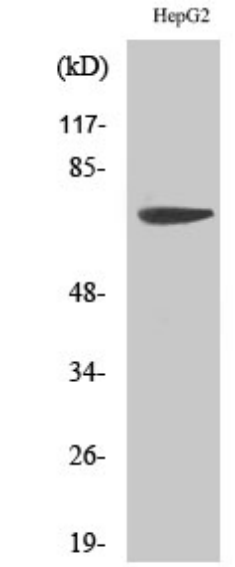
MMP-16 Polyclonal Antibody

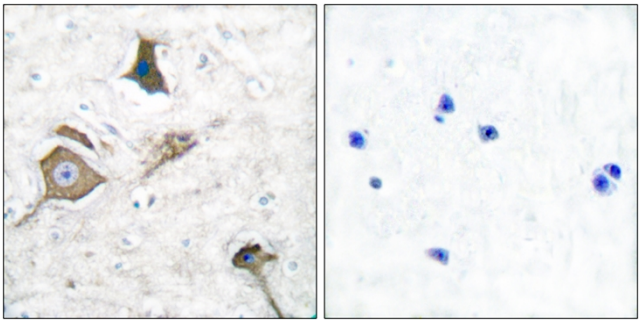
Catalog No	YP-Ab-02688
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	MMP16
Protein Name	Matrix metalloproteinase-16
Immunogen	The antiserum was produced against synthesized peptide derived from human MMP-16. AA range:551-600
Specificity	MMP-16 Polyclonal Antibody detects endogenous levels of MMP-16 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MMP16; MMPX2; Matrix metalloproteinase-16; MMP-16; MMP-X2; Membrane-type matrix metalloproteinase 3; MT-MMP 3; MTMMP3; Membrane-type-3 matrix metalloproteinase; MT3-MMP; MT3MMP
Observed Band	70kD
Cell Pathway	[Isoform Long]: Cell membrane ; Single-pass type I membrane protein ; Extracellular side . Localized at the cell surface of melanoma cells.; [Isoform Short]: Secreted, extracellular space, extracellular matrix. Cell surface. Localized at the cell surface of melanoma cells.
Tissue Specificity	Expressed in heart, brain, placenta, ovary and small intestine. Isoform Short is found in the ovary.
Function	cofactor:Binds 1 zinc ion per subunit.,cofactor:Calcium.,developmental stage:Expressed in tissues undergoing reconstruction. Present in fetal tissues, especially in brain. Expression seems to decline with advanced development.,domain:The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.,enzyme regulation:TIMP-2 shows little inhibitory activity compared to TIMP-1. TIMP-1 seems to have less binding affinity than TIMP-2 for the short isoform.,function:Endopeptidase that degrades various components of the extracellular matrix, such as collagen type III and fibronectin. Activates

	progelatinase A. Involved in the matrix remodeling of blood vessels. The short isoform cleaves fibronectin and also collagen type III, but at low
Background	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue 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 proteinases. The encoded protein activates MMP2 by cleavage. This gene was once referred to as MT-MMP2, but was renamed as MT-MMP3 or MMP16. [provided by RefSeq, Oct 2010],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

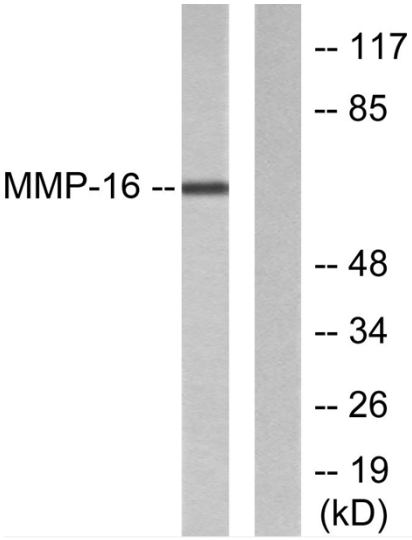
Products Images



Western Blot analysis of various cells using MMP-16 Polyclonal Antibody diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using MMP-16 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HepG2 cells, using MMP-16 Antibody. The lane on the right is blocked with the synthesized peptide.