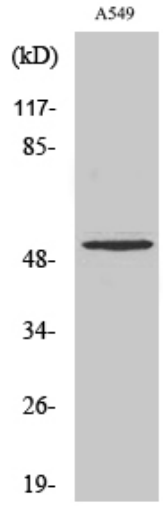
Cleaved-MMP-17 (Q129) Polyclonal Antibody

Catalog No	YP-Ab-02294
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	MMP17
Protein Name	Matrix metalloproteinase-17
Immunogen	The antiserum was produced against synthesized peptide derived from human MMP17. AA range:110-159
Specificity	Cleaved-MMP-17 (Q129) Polyclonal Antibody detects endogenous levels of fragment of activated MMP-17 protein resulting from cleavage adjacent to Q129.
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	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	MMP17; MT4MMP; Matrix metalloproteinase-17; MMP-17; Membrane-type matrix metalloproteinase 4; MT-MMP 4; MTMMP4; Membrane-type-4 matrix metalloproteinase; MT4-MMP; MT4MMP
Observed Band	53kD
Cell Pathway	[Isoform Long]: Cell membrane; Lipid-anchor, GPI-anchor; Extracellular side. Secreted, extracellular space, extracellular matrix.
Tissue Specificity	Expressed in brain, leukocytes, colon, ovary testis and breast cancer. Expressed also in many transformed and non-transformed cell types.
Function	catalytic activity:Cleaves pro-TNF-alpha at the 74-Ala-|-Gln-75 site.,cofactor:Binds 1 zinc ion per subunit.,cofactor:Calcium.,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.,function:Endopeptidase that degrades various components of the extracellular matrix, such as fibrin. May be involved in the activation of membrane-bound precursors of growth factors or inflammatory mediators, such as tumor necrosis factor-alpha. May also be involved in tumoral process. Not obvious if able to proteolytically activate progelatinase A. Does not hydrolyze collagen types I, II, III, IV and V, gelatin, fibronectin, laminin, decorin nor alpha1-antitrypsin.,PTM:The precursor is cleaved by a furin

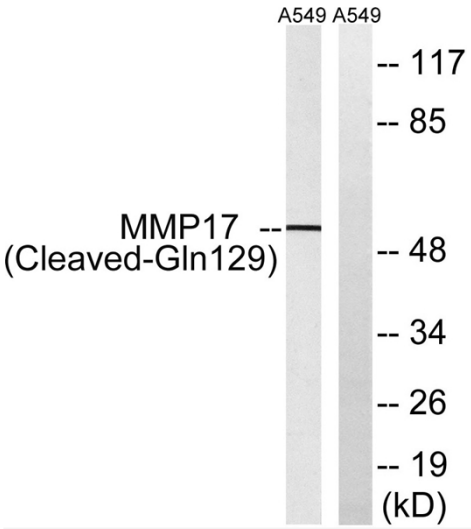
endopeptidase.,similarity:Be

Background	This gene encodes a member of the peptidase M10 family and membrane-type subfamily of matrix metalloproteinases (MMPs). Proteins in this 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. Members of this subfamily contain a transmembrane domain suggesting that these proteins are expressed at the cell surface rather than secreted. The encoded preproprotein is proteolytically processed to generate the mature protease. This protein is unique among the membrane-type matrix metalloproteinases in that it is anchored to the cell membrane via a glycosylphosphatidylinositol (GPI) anchor. Elevated expression of the encoded protein has been observed in osteoarthritis and multiple human cancers. [provided by RefSeq, Jan 2016],
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 Cleaved-MMP-17 (Q129) Polyclonal Antibody



Western blot analysis of lysates from A549 cells, treated with etoposide 25uM 1h, using MMP17 (Cleaved-Gln129) Antibody. The lane on the right is blocked with the synthesized peptide.