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## MMP12 Polyclonal antibody

Catalog Number:22989-1-AP

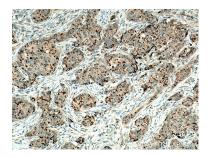
28 Publications



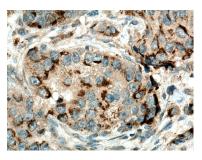
## Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 22989-1-AP BC112301 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 350 $\mu g/ml$ by 4321 WB 1:500-1:3000 Nanodrop: IHC 1:20-1:200 UNIPROT ID: Source P39900 Rabbit Full Name: Isotype matrix metallopeptidase 12 lgG (macrophage elastase) Immunogen Catalog Number: Calculated MW: AG19068 470 aa. 54 kDa **Observed MW:** 54 kDa, 45 kDa **Applications Tested Applications:** Positive Controls: IHC, WB, ELISA WB: mouse brain tissue, rat brain tissue **Cited Applications:** IHC : human lung cancer tissue, human breast cancer WB,IHC,IF tissue, human lung tissue Species Specificity: human, mouse, rat **Cited Species:** human, mouse, rabbit, hamster Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 **Background Information** MMP12(Matrix metalloproteinase-12) is a 54 kDa proenzyme that is processed into a 45 kDa and then a 22 kDa active form(15723202). MMP9 and MMP12 promote intimal thickening by independent cleavage of N-cadherin, which elevates vascular smooth muscle cell proliferation via beta-catenin signalling. Its overexpression in myeloid lineage cells plays a key role in modulating myelopoiesis, immune suppression, and lung tumorigenesis(PMID: 21378275). Notable Publications Author Pubmed ID Journal Application Zhen-Huang Chen 32918999 Mol Cell Neurosci IHC Redox Biol WB Ruijuan Guan 31704583 Front Cell Dev Biol IF lian Chen 34722509 Storage Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage \*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

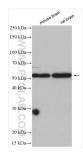
## Selected Validation Data



Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 22989-1-AP (MMP12 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



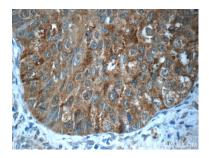
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 22989-1-AP (MMP12 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 22989-1-AP (MMP12 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 22989-1-AP (MMP12 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 22989-1-AP (MMP12 Antibody) at dilution of 1:50 (under 40x lens).