For Research Use Only

MMP12 Polyclonal antibody

Catalog Number:22989-1-AP

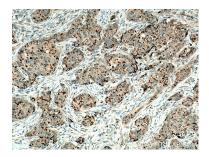
28 Publications



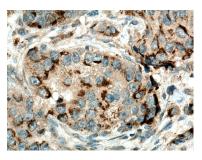
Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 22989-1-AP BC112301 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 350 $\mu g/ml$ by 4321 WB 1:500-1:3000 Nanodrop: IHC 1:20-1:200 UNIPROT ID: Source P39900 Rabbit Full 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.

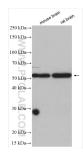
Selected Validation Data



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).



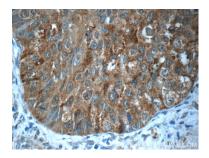
Immunohistochemical analysis of paraffinembedded human breast cancer tissue slide using 22989-1-AP (MMP12 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).