

# Product Datasheet

## MMP-13 Antibody (OTI2D8)

### NBP2-45887

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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**NBP2-45887****MMP-13 Antibody (OTI2D8)**

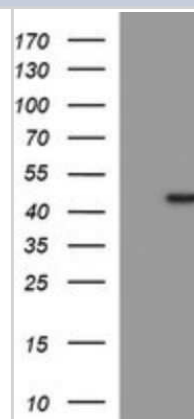
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	OTI2D8
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG2a
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.3), 1.0% BSA and 50% Glycerol
<b>Target Molecular Weight</b>	42.2 kDa

<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	4322
<b>Gene Symbol</b>	MMP13
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Use in Rat reported in scientific literature (PMID:34512868), (PMID: 28265573). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
<b>Immunogen</b>	Human recombinant protein fragment corresponding to amino acids 104-471 of human MMP13 (NP_002418) produced in HEK293T cell.

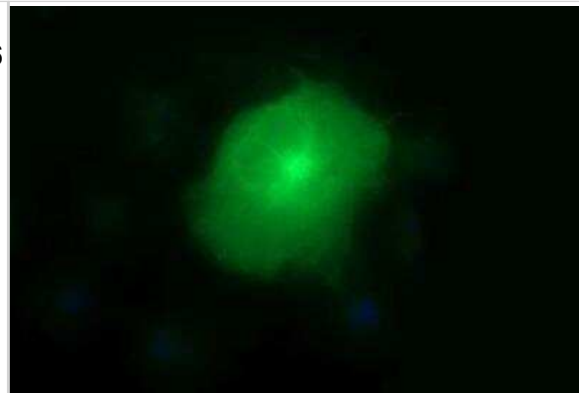
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 1:4000, Immunohistochemistry 1:150, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:150, Knockdown Validated Reported in (PMID:31439546)

**Images**

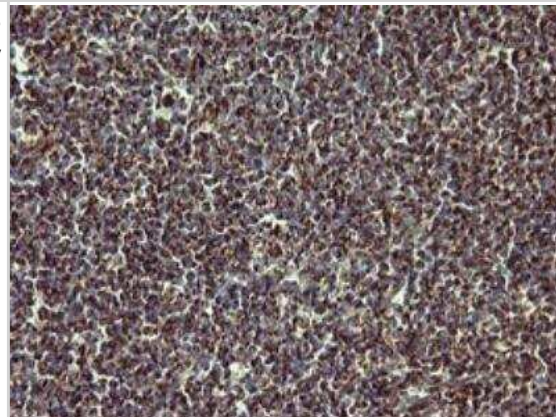
Western Blot: MMP-13 Antibody (2D8) [NBP2-45887] - Analysis of HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY MMP-13.



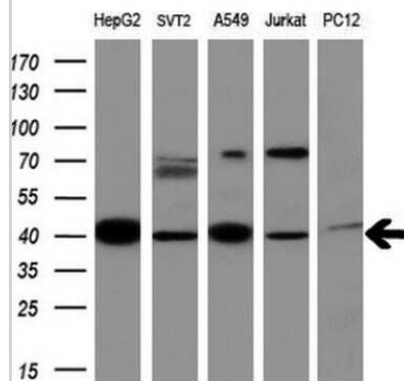
Immunocytochemistry/Immunofluorescence: MMP-13 Antibody (2D8) [NBP2-45887] - Analysis of COS7 cells transiently transfected by pCMV6-ENTRY MMP13.



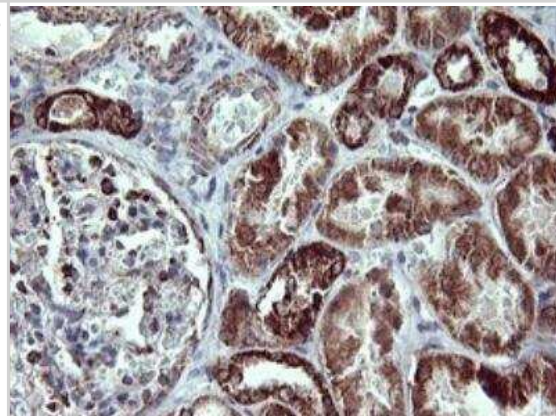
Immunohistochemistry-Paraffin: MMP-13 Antibody (2D8) [NBP2-45887] - Analysis of Human lymph node tissue. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120C for 3min)



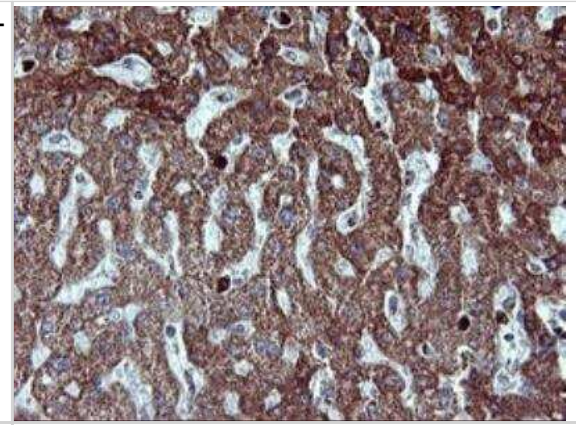
Western Blot: MMP-13 Antibody (2D8) [NBP2-45887] - Analysis of extracts (10ug) from 5 different cell lines.



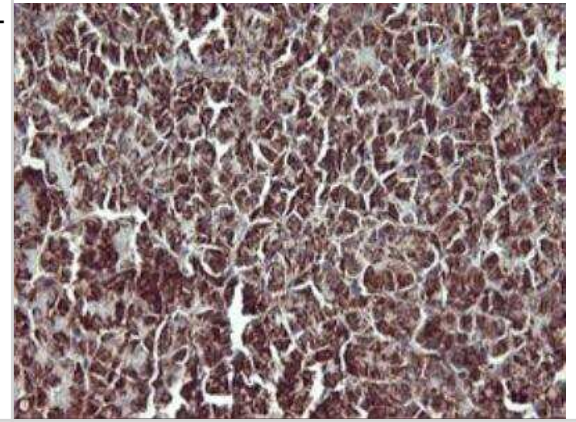
Immunohistochemistry-Paraffin: MMP-13 Antibody (2D8) [NBP2-45887] - Analysis of Human Kidney tissue. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120C for 3min)



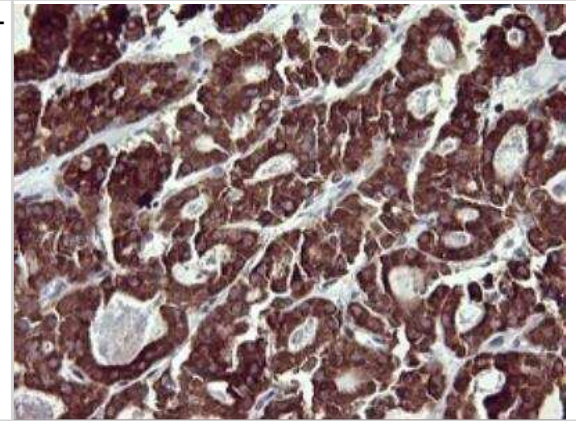
Immunohistochemistry-Paraffin: MMP-13 Antibody (2D8) [NBP2-45887] - Analysis of Human liver tissue. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120C for 3min)



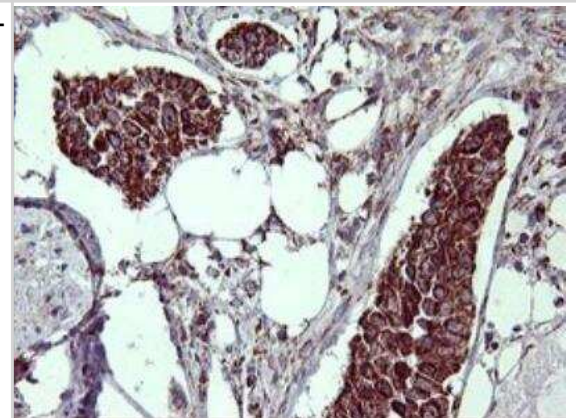
Immunohistochemistry-Paraffin: MMP-13 Antibody (2D8) [NBP2-45887] - Analysis of Human pancreas tissue. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120C for 3min)



Immunohistochemistry-Paraffin: MMP-13 Antibody (2D8) [NBP2-45887] - Analysis of Carcinoma of Human thyroid tissue. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120C for 3min)



Immunohistochemistry-Paraffin: MMP-13 Antibody (2D8) [NBP2-45887] - Analysis of Carcinoma of Human bladder tissue. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120C for 3min)



## Publications

Dexing Xu, Ruozhu Dai, Hao Chi, Wen Ge, Jingfeng Rong Long Non-Coding RNA MEG8 Suppresses Hypoxia-Induced Excessive Proliferation, Migration and Inflammation of Vascular Smooth Muscle Cells by Regulation of the miR-195-5p/RECK Axis *Frontiers in Molecular Biosciences* 2021-11-01 [PMID: 34790697]

Huang Y, Huang L, Li L et al. MicroRNA-25-3p therapy for intervertebral disc degeneration by targeting the IL-1 $\beta$ /ZIP8/MTF1 signaling pathway with a novel thermo-responsive vector *Annals of Translational Medicine* 2020-12-14 [PMID: 33313245]

Bai H, Zhang Z, Liu L et al. Activation of adenosine A3 receptor attenuates progression of osteoarthritis through inhibiting the NLRP3/caspase-1/GSDMD induced signalling *Journal of cellular and molecular medicine* 2022-08-01 [PMID: 35775127] (IHC-P, Rat)

Bai H, Yuan R, Zhang Z et al. Intra-articular Injection of Baicalein Inhibits Cartilage Catabolism and NLRP3 Inflammasome Signaling in a Posttraumatic OA Model *Oxidative medicine and cellular longevity* 2021-09-02 [PMID: 34512868] (IF/IHC, Rat)

Shang S, Ji X, Zhang L et al. Macrophage ABHD5 suppresses NF-kappa B-dependent matrix metalloproteinase expression and cancer metastasis *Cancer Res.* 2019-08-22 [PMID: 31439546] (KD, Mouse)

Huang W, Ao P, Li J et al. Autophagy protects advanced glycation end product-induced apoptosis and. *BioMed Research International.* 2017-01-16 [PMID: 28265573] (WB, Rat)





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### **Products Related to NBP2-45887**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)
210-TA-005	TNF-alpha [Unconjugated]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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