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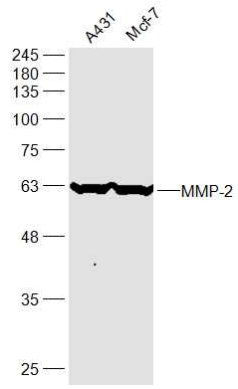
MMP-2 Rabbit pAb

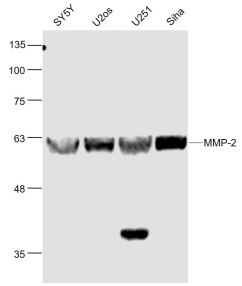
Catalog Number:	bs-4599R
Target Protein:	MMP-2
Concentration:	1mg/ml
Form:	Liquid
Host:	Rabbit
Clonality:	Polyclonal
Isotype:	IgG
Applications:	WB (1:500-2000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), Flow-Cyt (1μg/Test), ICC/IF (1:100)
Reactivity:	Human, Mouse, Rat, Rabbit (predicted:Pig, Sheep, Cow, Horse)
Predicted MW:	62 kDa
Entrez Gene:	4313
Swiss Prot:	P08253
Source:	KLH conjugated synthetic peptide derived from human MMP-2: 401-500/662.
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
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. This gene encodes an enzyme which degrades type IV collagen, the major structural component of basement membranes. The enzyme plays a role in endometrial menstrual breakdown, regulation of vascularization and the inflammatory response. Mutations in this gene have been associated with Winchester syndrome and Nodulosis-Arthropathy-Osteolysis (NAO) syndrome. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

VALIDATION IMAGES

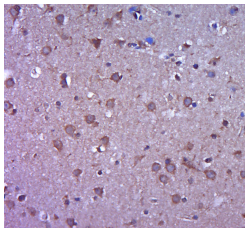
Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



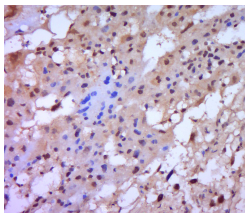
Sample: A431(Human) Cell Lysate at 30 ug Mcf-7(Human) Cell Lysate at 30 ug Primary: Anti-MMP-2 (bs-4599R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 62 kD Observed band size: 62 kD



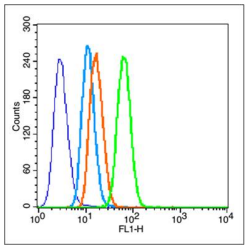
Sample: SY5Y (Human) Cell Lysate at 30 ug U2os (Human) Cell Lysate at 30 ug U251 (Human) Cell Lysate at 30 ug Siha (Human) Cell Lysate at 30 ug Primary: Anti- MMP-2 (bs-4599R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 62 kD Observed band size: 60 kD



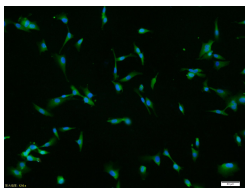
Paraformaldehyde-fixed, paraffin embedded (human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MMP-2) Polyclonal Antibody, Unconjugated (bs-4599R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse placenta tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MMP-2) Polyclonal Antibody, Unconjugated (bs-4599R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Blank control (blue line): Hela (fixed with 80% methanol (5 min at -20°C) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature). Primary Antibody (green line): Rabbit Anti- MMP2 antibody (bs-4599R),Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC,Dilution: 1µg /test.



Tissue/cell: U-87MG cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (MMP2)polyclonal Antibody, Unconjugated (bs-4599R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

PRODUCT SPECIFIC PUBLICATIONS

[IF=9.261] Wei, Tao. et al. Two distinct males absent on the first (MOF)-containing histone acetyltransferases are involved in the epithelial–mesenchymal transition in different ways in human cells. CELL MOL LIFE SCI. 2022 May;79(5):1-18 WB ; Human . 35416545

[IF=7.43] Wang, Jing, et al. "Phosphorylation-dependent regulation of ALDH1A1 by Aurora kinase A: insights on their synergistic

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relationship in pancreatic cancer." BMC biology 15.1 (2017): 10. WB ; ="Human" . 28193222

[IF=6.491] Nikhil K et al. Identification of LIMK2 as a Therapeutic Target in Castration Resistant Prostate Cancer. Cancer Lett. 2019 Apr 28;448:182-196. WB,IHC ; Mouse . 30716360

[IF=5.83] Fan, Gaochao, et al. "Ultrasensitive photoelectrochemical immunoassay for matrix metalloproteinase-2 detection based on CdS: Mn/CdTe co-sensitized TiO2 nanotubes and signal amplification of SiO2@ Ab2 conjugates." Analytical Chemistry (2014). Other ; ="" . 25420143

[IF=5.572] Liu H et al. Anti-tubulin agent vinorelbine inhibits metastasis of cancer cells by regulating epithelial-mesenchymal transition. Eur J Med Chem. 2020 Aug 15;200:112332. WB ; Human . 32473523

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