Data Sheet (Cat.No.TMAB-08877)

TargetMol

Anti-MMP-28 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Pig,GuineaPig)
Molecular Weight:	Theoretical: 44 kDa. Actual: 50 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Lane 1: Mouse Testis tissue lysates Lane 2: Mouse Ovary tissue lysates Lane 3: Mouse Raw264.7 cell lysates Lane 4: Rat Testis tissue lysates Lane 5: Rat Kidney tissue lysates Lane 6: Human MCF-7 cell lysates Lane 7: Human HeLa cell lysates Primary: Anti-MMP-28 (TMAB-08877) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 44 kDa Observed band size: 50 kDa
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human MMP28
Antigen Species:	Human
Gene ID:	79148
Uniprot ID:	Q9H239

Research Background

Matrix Metalloproteinase 28, also known as epilysin, was first cloned from human skin keratinocytes and described to reflect its role in the remodeling of the epidermis. It was found in testis, as well as heart, brain, placenta, lung, prostate, intestine, and colon. MMP28 was later cloned from human lung and found in lung, kidney, brain, skeletal muscle, and several tumor cell lines. At least three MMP28 transcripts of 2.6, 2.0, and 1.2 kb have been reported possibly representing alternatively spliced forms of MMP28. There are two human sequences (isoform1 and isoform 2) which encode proteins of 520 and 393 amino acids with predicted masses of 58.9 and 44.5 kDa respectively. The mouse sequence contains two inserts of 41 and 39 amino acids respectively, relative to the human sequence. Mouse

epilysin has a predicted molecular mass of approx. 70 kDa. Mouse and human epilysin are highly conserved and share 97% identical residues. Epilysin (MMP-28) contains the key domains of the other MMPs: a signal peptide, conserved cysteine-containing prodomain (with a furin cleavage site), conserved histidine-containing catalytic domain, hinge domain, and hemopexin domain. MMP28 has a furin cleavage site, similar to MMP11, and is cleaved by the prohormone convertase family of enzymes. Sequence identity between MMP28 and the other MMPs is low overall. MMP28 is most closely related to MMP19 (39% sequence identity). Recombinant MMP28 degrades casein.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481