



## Rabbit Anti-MMP-20 antibody

SL0985R

<b>Product Name:</b>	MMP-20
<b>Chinese Name:</b>	基质金属蛋白酶20抗体
<b>Alias:</b>	Enamel metalloproteinase; Enamelysin; Matrix metalloproteinase 20; Matrix metalloproteinase 20 precursor; AI2A2; Matrix metalloproteinase-20; Matrix metalloproteinase 20 preproprotein; MMP 20; MMP-20; MMP20 HUMAN; MMP 20.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	43kDa
<b>Cellular localization:</b>	Extracellular matrix
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human MMP20:401-483/483
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	p65 is a subunit of the nuclear factor kappa-B, a second messenger, which activates the transcription of a number of genes in multiple tissues. The inhibitory effect of I-kappa-B upon NF-kappa-B in the cytoplasm is exerted primarily through the interaction with p65. p65 shows a weak DNA-binding site which could contribute directly to DNA binding in the NF-kappa-B complex. Active NF-kappa-B is a heterodimer of an about 50 kDa

DNA-binding subunit and the weak DNA-binding subunit p65. Two heterodimers might form a labile tetramer. Subcellular location is at Nucleus, Cytoplasm. Nuclear, but also found in the cytoplasm in an inactive form complexed to an inhibitor (I-kappa-B). Tissue Specificity: Spleen; lower level in brain.

**Function:**

Degrades amelogenin, the major protein component of the enamel matrix and two of the macromolecules characterizing the cartilage extracellular matrix: aggrecan and the cartilage oligomeric matrix protein (COMP). May play a central role in tooth enamel formation.

**Subcellular Location:**

Secreted, extracellular space, extracellular matrix.

**Tissue Specificity:**

Expressed specifically in the enamel organ.

**Post-translational modifications:**

Autoactivates at least at the 107-Asn-|-Tyr-108 site.

**DISEASE:**

Amelogenesis imperfecta, hypomaturation type, 2A2 (AI2A2) [MIM:612529]: A defect of enamel formation. The disorder involves both primary and secondary dentitions. The teeth have a shiny agar jelly appearance and the enamel is softer than normal. Brown pigment is present in middle layers of enamel. Note=The disease is caused by mutations affecting the gene represented in this entry.

**Similarity:**

Belongs to the peptidase M10A family.  
Contains 4 hemopexin-like domains.

**SWISS:**

O60882

**Gene ID:**

9313

**Database links:**

[Entrez Gene: 9313](#)Human

[Entrez Gene: 30800](#)Mouse

[Entrez Gene: 300341](#)Rat

[Oimim: 604629](#)Human

[SwissProt: O60882](#)Human

[SwissProt: P57748](#)Mouse

[Unigene: 591946](#)Human

[Unigene: 390121](#)Mouse

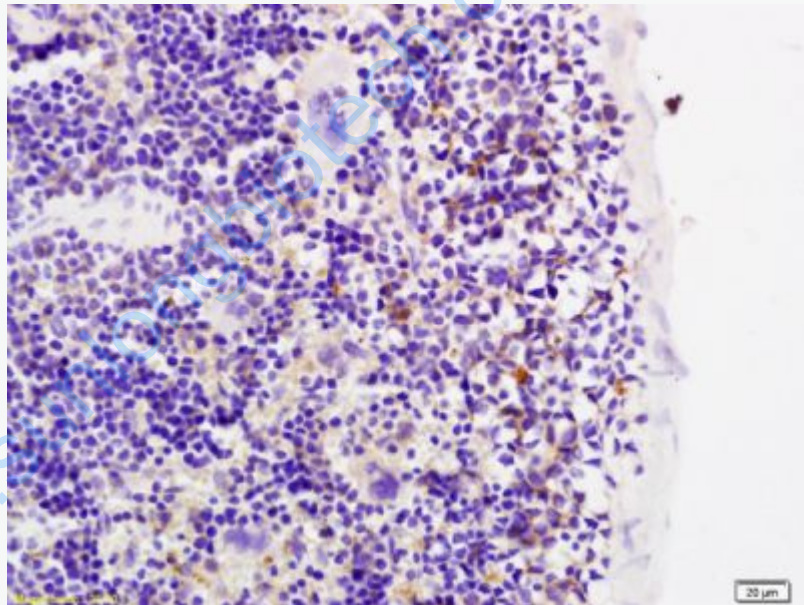
[Unigene: 218697](#)Rat

**Important Note:**

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

基质金属蛋白酶20又称釉质溶解素

**Picture:**



Tissue/cell: mouse spleen tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-MMP-20 Polyclonal Antibody, Unconjugated(SL0985R) 1:200,

	overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining
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