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ARG44544
anti-MMP20 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes MMP20
Tested Reactivity	Hu, Ms
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	MMP20
Species	Human
Immunogen	Human MMP20 synthesized peptide
Conjugation	Un-conjugated
Alternate Names	MMP20; Matrix Metallopeptidase 20 ; Matrix Metalloproteinase 20 (Enamelysin); Matrix Metalloproteinase-20; Enamel Metalloproteinase; Enamelysin; MMP-20; EC 3.4.24.22; EC 3.4.24.35; EC 3.4.24.-; EC 3.4.24; AI2A2

Application Instructions

Application table

Application	Dilution
IHC-P	1:50 - 1:100
WB	1:500 - 1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity Purified
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 40% Glycerol.
Preservative	0.05% Sodium azide
Stabilizer	40% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	MMP20
Gene Full Name	Matrix Metallopeptidase 20
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. The protein encoded by this gene degrades amelogenin, the major protein component of dental enamel matrix, and thus thought to play a role in tooth enamel formation. A mutation in this gene, which alters the normal splice pattern and results in premature termination of the encoded protein, has been associated with amelogenesis imperfecta. This gene is part of a cluster of MMP genes located on chromosome 11q22.3.
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. Cleaves aggrecan at the '360-Asn-|-Phe-361' site.
Calculated Mw	54 kDa
PTM	Autocatalytic cleavage, Disulfide bond, Zymogen
Cellular Localization	Extracellular matrix, Secreted

Images

ARG44544 anti-MMP20 antibody WB image

Western blot: 823 stained with ARG44544 anti-MMP20 antibody.

ARG44544 anti-MMP20 antibody WB image

Western blot: Mouse brain stained with ARG44544 anti-MMP20 antibody.