

Rabbit ADAMTS5 Polyclonal Antibody | anti-ADAMTS5 antibody

Rabbit Polyclonal to Human ADAMTS5

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA52201	Rabbit	Bovine, Human, Monkey, Mouse, Pig, Rat Predicted Reactivity: Hamster	Immunohistochemistry

PRODUCT SYNONYMS

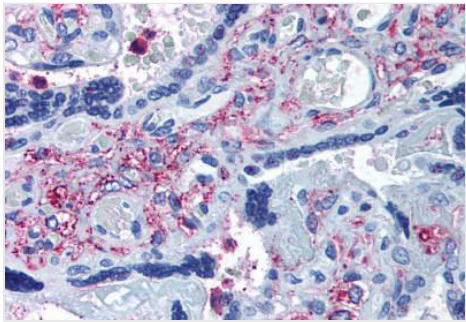
ADAMTS5; Polyclonal Antibody; Rabbit Polyclonal to Human ADAMTS5; Anti-ADAMTS5 Antibody (Internal) IHC-plus; Aggrecanase-2; ADAM-TS 11; ADAM-TS5; ADAMTS-11; ADAMTS11; ADAM-TS 5; ADAMTS-5; ADMP-2; ADMP2; Human ADAMTS5; anti-ADAMTS5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Bovine, Human, Monkey, Mouse, Pig, Rat Predicted Reactivity: Hamster
Clonality	Polyclonal
Specificity	Human ADAMTS5. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Purity/Purification	Immunoaffinity Purified
Form/Format	PBS, 0.1% sodium azide.
Concentration	1 mg/ml (varies by lot)
Sequence Length	930
Applicable Applications for anti-ADAMTS5 antibody	IHC (Immunohistochemistry)
Target	ADAMTS5
Immunogen	Synthetic 20 amino acid peptide from internal region of human ADAMTS5. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Marmoset, Mouse, Rat, Bovine, Panda, Pig (100%); Hamster, Elephant (95%); Lizard (85%); Stickleback (80%).
Epiope	Internal

Recommended Immunohistochemistry Protocol	The following Protocol is a recommendation only. Results are not guaranteed Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place precleaned and charged microscope slides. Heat in a tissue-drying oven for 45 Min. at 60°. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 min. each side at RT Rehydration: Wash slides 3 changes of 100% alcohol - 3 min. each side at RT Wash slides 2 changes of 95% alcohol - 3 min. each side at RT Wash slides 1 change of 80% alcohol - 3 min. each side at RT Rinse slides in gently running distilled water - 5 min. at RT Antigen Retrieval: Steam slides in 0.01 sodium citrate buffer, pH 6.0 at 99-100°C - 20 min Remove from heat and let stand at RT in buffer - 20 min Rinse in 1X TBS with tween (TBST) - 1 min. at RT Immunostaining: (do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 min. at RT Drain protein block from slides, apply diluted primary antibody - 45 min. at RT Rinse in 1X TBS with tween (TBST) - 1 min. at RT Apply biotinylated secondary antibody appropriate for the primary antibody - 30 min. at RT Rinse in 1X TBS with tween (TBST) - 1 min. at RT Apply alkaline phosphatase streptavidin - 30 min. at RT Rinse in 1X TBS with tween (TBST) - 1 min. at RT Apply alkaline phosphatase chromogen substrate - 30 min. at RT Wash slides in distilled water - 1 min. at RT. Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble) Wash slides 2 changes of 80% alcohol - 1 min. each side at RT Wash slides 2 changes of 95% alcohol - 1 min. each side at RT Wash slides 3 changes of 100% alcohol - 1 min. each side at RT Wash slides 3 changes of xylene - 1 min. each side at RT Apply Coverslip.
Preparation and Storage	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)
Anti-ADAMTS5 antibody IHC of human placenta. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL INFORMATION

Related Product Information for anti-ADAMTS5 antibody	ADAMTS5, also known as aggrecanase-2, is a Metallopeptidase M12B type protease that is responsible for degradation of the articular cartilage protein aggrecan. The protein contains a signal sequence, a prodomain with both a potential cysteine switch and a furin cleavage site, a metalloproteinase domain with a conserved zinc-binding motif and a 'met turn,' a disintegrin-like domain, and a spacer region between a thrombospondin type 1 motif and thrombospondin submotif.
Product Categories/Family for anti-ADAMTS5 antibody	Family: Protease ; Subfamily: Metallopeptidase M12B

NCBI AND UNIPROT INFORMATION

NCBI GI #	195539372
NCBI GeneID	11096
NCBI Accession #	NP_008969.2
NCBI GenBank Nucleotide #	NM_007038.3
UniProt Accession #	Q9UNA0 ; Q52LV4 ; Q9UKP2
NCBI Official Full Name	A disintegrin and metalloproteinase with thrombospondin motifs 5 preproprotein
NCBI Official Synonym Full Names	ADAM metallopeptidase with thrombospondin type 1 motif, 5
NCBI Official Symbol	ADAMTS5
NCBI Official Synonym Symbols	ADMP-2; ADAM-TS5; ADAMTS-5; ADAMTS11; ADAM-TS 5; ADAMTS-11; ADAM-TS 11
NCBI Protein Information	A disintegrin and metalloproteinase with thrombospondin motifs 5; aggrecanase-2; a disintegrin and metalloproteinase with thrombospondin motifs 11; a disintegrin-like and metalloprotease (reprolysin type) with thrombospondin type 1 motif, 5 (aggrecanase-2)
UniProt Protein Name	A disintegrin and metalloproteinase with thrombospondin motifs 5
UniProt Gene Name	ADAMTS5
UniProt Synonym Gene Names	ADAMTS11; ADMP2; ADAM-TS 5; ADAM-TS5; ADAMTS-5; ADAM-TS 11; ADAMTS-11
UniProt Entry Name	ATS5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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