



## ADAMTS5 peptide (DAG-P0140)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	This gene encodes a member of the ADAMTS (a disintegrin and metalloproteinase with thrombospondin motifs) protein family. Members of the family share several distinct protein modules, including a propeptide region, a metalloproteinase domain, a disintegrin-like domain, and a thrombospondin type 1 (TS) motif. Individual members of this family differ in the number of C-terminal TS motifs, and some have unique C-terminal domains. The enzyme encoded by this gene contains two C-terminal TS motifs and functions as aggrecanase to cleave aggrecan, a major proteoglycan of cartilage. [provided by RefSeq, Jul 2008]
<b>Specificity</b>	Expressed at low level in placenta primarily but also detected in heart and brain, cervix, uterus, bladder, esophagus, rib cartilage, chondroblastoma, fibrous tissue and a joint capsule from an arthritic patient.
<b>Purity</b>	> 95 % by SDS-PAGE.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, WB
<b>Sequence Similarities</b>	Contains 1 disintegrin domain.Contains 1 peptidase M12B domain.Contains 2 TSP type-1 domains.
<b>Format</b>	Liquid
<b>Buffer</b>	Preservative: None Constituents: 50% Glycerol, 0.001% Tween 20, 150M Sodium chloride, 30mM HEPES, 2mM EDTA
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Preservative: None Constituents: 50% Glycerol, 0.001% Tween 20, 150M Sodium chloride, 30mM HEPES, 2mM EDTA

# GENE INFORMATION

Gene Name	<a href="#">ADAMTS5 ADAM metalloproteinase with thrombospondin type 1 motif, 5 [ Homo sapiens (human) ]</a>
Official Symbol	ADAMTS5
Synonyms	ADAMTS5; ADAM metalloproteinase with thrombospondin type 1 motif, 5; ADMP-2; ADAM-TS5; ADAMTS-5; ADAMTS11; ADAM-TS 5; ADAMTS-11; ADAM-TS 11; 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);
Entrez Gene ID	<a href="#">11096</a>
mRNA Refseq	<a href="#">NM_007038.3</a>
Protein Refseq	<a href="#">NP_008969.2</a>
UniProt ID	Q9UNA0
Chromosome Location	21q21.3
Pathway	Degradation of the extracellular matrix, organism-specific biosystem; Degradation of the extracellular matrix, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem; Extracellular matrix organization, organism-specific biosystem;
Function	integrin binding; metalloendopeptidase activity; metalloproteinase activity; protein binding; zinc ion binding;