


Product datasheet

Anti-ADAMTS10 antibody ab230902

2 Images

Overview

Product name	Anti-ADAMTS10 antibody
Description	Rabbit polyclonal to ADAMTS10
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human Predicted to work with: Pig, Monkey 
Immunogen	Synthetic peptide corresponding to Human ADAMTS10 (internal sequence) conjugated to keyhole limpet haemocyanin. Database link: Q9H324
Positive control	WB: HeLa, PC-12 and RAW 264.7 whole cell lysates. IHC-P: Human heart vessel tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.01% Sodium azide Constituents: PBS, 30% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab230902** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

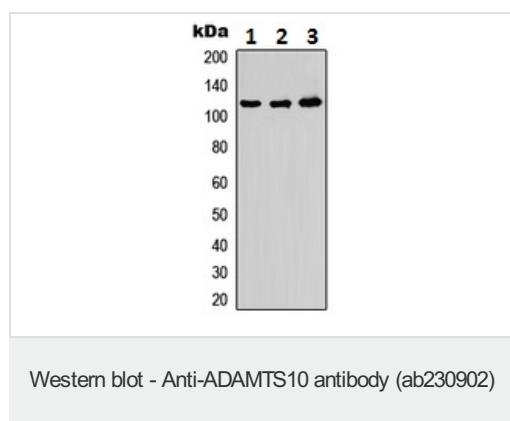
Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 121 kDa.

Application	Abreviews	Notes
IHC-P		1/100.

Target

Function	Metalloprotease that participate in microfibrils assembly. Microfibrils are extracellular matrix components occurring independently or along with elastin in the formation of elastic tissues.
Tissue specificity	Widely expressed in adult tissues.
Involvement in disease	Defects in ADAMTS10 are the cause of Weill-Marchesani syndrome 1 (WMS1) [MIM:277600]. WMS1 is a rare connective tissue disorder characterized by short stature, brachydactyly, joint stiffness, and eye abnormalities including microspherophakia, ectopia lentis, severe myopia and glaucoma.
Sequence similarities	Contains 1 disintegrin domain. Contains 1 peptidase M12B domain. Contains 1 PLAC domain. Contains 5 TSP type-1 domains.
Domain	The spacer domain and the TSP type-1 domains are important for a tight interaction with the extracellular matrix.
Post-translational modifications	Glycosylated. Can be O-fucosylated by POFUT2 on a serine or a threonine residue found within the consensus sequence C1-X(2)-(S/T)-C2-G of the TSP type-1 repeat domains where C1 and C2 are the first and second cysteine residue of the repeat, respectively. Fucosylated repeats can then be further glycosylated by the addition of a beta-1,3-glucose residue by the glucosyltransferase, B3GALTL. Fucosylation mediates the efficient secretion of ADAMTS family members. Also can be C-glycosylated with one or two mannose molecules on tryptophan residues within the consensus sequence W-X-X-W of the TPRs, and N-glycosylated. These other glycosylations can also facilitate secretion.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Images



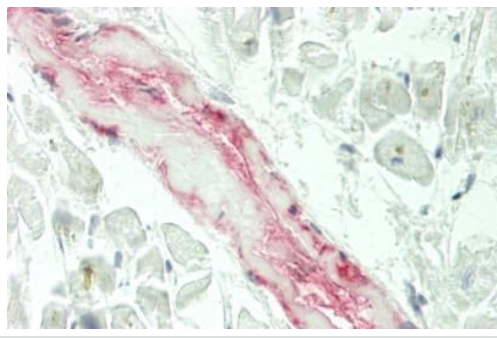
All lanes : Anti-ADAMTS10 antibody (ab230902) at 1/500 dilution

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lane 2 : PC-12 (rat adrenal gland pheochromocytoma cell line) whole cell lysate

Lane 3 : RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

Predicted band size: 121 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ADAMTS10 antibody (ab230902)

Formalin-fixed, paraffin-embedded human heart vessel tissue stained for ADAMTS10 using ab230902 at 1/100 dilution in immunohistochemical analysis.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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