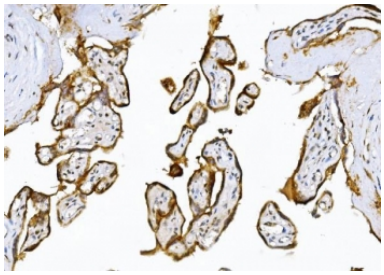
ADAMTS5 Antibody (RQ6310)

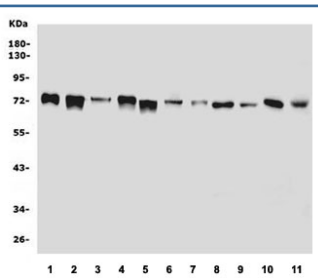
Catalog No.	Formulation	Size
RQ6310	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9UNA0
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This ADAMTS5 antibody is available for research use only.



IHC staining of FFPE human placental tissue with ADAMTS5 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HeLa, 2) HepG2, 3) U-2 OS, 4) SW620, 5) ThP-1, 6) Raji, 7) SGC-7901, 8) rat liver, 9) rat testis, 10) mouse liver and 11) mouse testis lysate with ADAMTS5 antibody. Predicted molecular weight ~102 kDa, but the processed forms can be observed at approx. 50-102 kDa.

Description

ADAMTS5 (A Disintegrin-Like and Metalloproteinase with Thrombospondin Type 1 Motif, 5), is an enzyme that in humans is encoded by the ADAMTS5 gene. ADAMTS5 is a member of the large ADAMTS family of zinc-dependent proteases. The enzyme encoded by this gene contains two C-terminal TS motifs and functions as aggrecanase to cleave aggrecan, a major proteoglycan of cartilage. By somatic cell hybrid analysis, the human ADAMTS5 gene is mapped to chromosome 21. Used mouse models, it is showed that Sdc4 controls a pathway that activates Adamts5 at the chondrocyte cell surface through Erk1/Erk2 activation of Mmp3.

Application Notes

Optimal dilution of the ADAMTS5 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids D747-K780) was used as the immunogen for the ADAMTS5 antibody.

Storage

After reconstitution, the ADAMTS5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.