Product datasheet

Recombinant Human ADAMTS13 protein ab112399

Description

Product name: Recombinant Human ADAMTS13 protein
Expression system: Wheat germ
Accession: Q76LX8
Protein length: Protein fragment
Animal free: No
Nature: Recombinant
Species: Human

Sequence:
FINVAPHARIAHALATNMAGTEGANASYLIRDTHSLRT
TAFHGQQVL
YWESESSQAEMEFSEGFLKAQASLRGQYWTLQSWV
PEMQDPQSWKGKEGT

Predicted molecular weight: 37 kDa including tags
Amino acids: 1328 to 1427
Tags: GST tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of ab112399 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications
ELISA
SDS-PAGE
Western blot
Other

Form: Liquid
Additional notes: Best use within three months from the date of receipt of this protein.

Preparation and Storage

Stability and Storage: Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
pH: 8.00
Constituents: 0.79% Tris HCl, 0.31% Glutathione

**General Info**

**Function**
Cleaves the vWF multimers in plasma into smaller forms.

**Tissue specificity**
Plasma. Expressed primarily in liver.

**Involvement in disease**
Defects in ADAMTS13 are the cause of thrombotic thrombocytopenic purpura congenital (TTP) [MIM:274150]; also known as Upshaw-Schulman syndrome (USS). A hematologic disease characterized by hemolytic anemia with fragmentation of erythrocytes, thrombocytopenia, diffuse and non-focal neurologic findings, decreased renal function and fever.

**Sequence similarities**
Contains 2 CUB domains.
Contains 1 disintegrin domain.
Contains 1 peptidase M12B domain.
Contains 8 TSP type-1 domains.

**Domain**
The pro-domain is not required for folding or secretion and does not perform the common function of maintaining enzyme latency.
The spacer domain is necessary to recognize and cleave vWF. The C-terminal TSP type-1 and CUB domains may modulate this interaction.

**Post-translational modifications**
May contain a C-mannosylation site and O-fucosylation sites in the TSP type-1 domains.
The precursor is processed by a furin endopeptidase which cleaves off the pro-domain.

**Cellular localization**
Secreted.

**Images**

12.5% SDS-PAGE analysis of ab112399. Stained with Coomassie Blue

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

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