

## Anti-ADAMTs13 [1-420 scFv] Standard Size Ab00735-2.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This full-length, chimeric mouse antibody was made using the variable domain sequences of the original Human scFv format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Mouse IgG2a, [Fc Silent™](#), Kappa

**Clone Number:** 1-420 scFv

**Alternative Name(s) of Target:** vWF-CP; ADAM-TS13; ADAMTS-13; C9orf8; VWFCP; ADAM metalloproteinase with thrombospondin type 1 motif 13

**UniProt Accession Number of Target Protein:** A2ALB3

**Published Application(s):** inhibit

**Published Species Reactivity:** Human, Mouse

**Immunogen:** 1-420 scFv was generated from a phage display library derived from human TTP patients expressing autoantibodies against ADAMTS13.

**Specificity:** Binds to the ADAMTS13 spacer domain. 1-420 binds to the same ADAMTS13 spacer domain loop segments that are required for binding of ADAMTS13 to VWF. ADAMTS13 is a zinc-containing metalloprotease which is secreted in blood where it is able to cleave VWF, a protein involved in blood clotting, to decrease the protein's activity.

**Application Notes:** Mice transfected with the scFv show ADAMTS13 inhibition and accumulation of unprocessed UL-VWF (ultralarge VWF) multimers. 1-420 mediates inhibition by binding to the same spacer domain loop domain segments required for ADAMTS13 binding to VWF. Please note that this antibody is subject to a pending patent application by the The Trustees Of The University Of Pennsylvania (WO2016164468 A2).

**Antibody First Published in:** Ostertag et al. ADAMTS13 autoantibodies cloned from patients with acquired thrombotic thrombocytopenic purpura: 2. Pathogenicity in an animal model Transfusion. 2016 Jul;56(7):1775-85 [PMID:27040023](#)

**Note on publication:** "Describes the use of human anti-ADAMTS13 autoantibodies that function in mice to develop thrombotic thrombocytopenic purpura (TTP) disease model."

## Product Form

**Size:** 200 µg Purified antibody.

**Purification:** Protein A affinity purified

**Supplied In:** PBS with 0.02% Proclin 300.

**Storage Recommendation:** Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.