

# TAFI (16C5): sc-59709

## BACKGROUND

The Thrombin-activatable fibrinolysis inhibitor (TAFI), also designated procarboxypeptidase B2 or procarboxypeptidase U, is a hepatically secreted zymogen that downregulates fibrinolysis when activated by Thrombin. It is synthesized in the liver and circulates in plasma in its proenzyme form. When activated, TAFI removes C-terminal arginine or lysine residues from biologically active peptides such as kinins or anaphylatoxins. TAFI cleaves the lysine residues from Fibrin, which prevents plasminogen from activation into plasmin and retards the lysis of a Fibrin clot. Elevated concentration of TAFI in blood is considered a risk factor for venous thrombosis, whereas a deficiency might contribute to the severity of bleeding disorders in hemophilias A and B. Decreased levels of TAFI are found in chronic liver disease.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: CPB2 (human) mapping to 13q14.13.

## SOURCE

TAFI (16C5) is a mouse monoclonal antibody raised against purified full length native TAFI of human origin.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

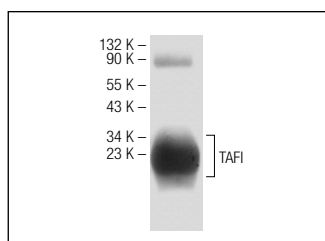
TAFI (16C5) is recommended for detection of TAFI of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TAFI siRNA (h): sc-63098, TAFI shRNA Plasmid (h): sc-63098-SH and TAFI shRNA (h) Lentiviral Particles: sc-63098-V.

Molecular Weight of TAFI: 48 kDa.

Positive Controls: human platelet extract: sc-363773 or human plasma extract: sc-364374.

## DATA



TAFI (16C5): sc-59709. Western blot analysis of TAFI derived from human plasma.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.