# TXA synthase (W-17): sc-79183



The Power to Question

#### **BACKGROUND**

TXA synthase, also referred to as thromboxane synthase or CYP5, is an enzyme that catalyzes the conversion of the prostaglandin endoperoxide (PGH2) into Thromboxane A2, a potent vasoconstrictor and inducer of platelet aggregation. TXA synthase is an important part of the cytochrome P450 system. Thromboxane A2 plays a pivotal role in the maintenance of hemostasis and cardiovascular diseases along with Prostacyclin. The expression of TXA synthase has been found to be consistently upregulated in several types of cancer tissues suggesting the involvement of this enzyme in tumor growth in humans. Thromboxanes are produced by TXA synthase in excess in inflammatory bowel disease.

## **REFERENCES**

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## CHROMOSOMAL LOCATION

Genetic locus: TBXAS1 (human) mapping to 7q34; Tbxas1 (mouse) mapping to 6 B1.

#### **SOURCE**

TXA synthase (W-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TXA synthase of human origin.

#### **PRODUCT**

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-79183 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

#### **APPLICATIONS**

TXA synthase (W-17) is recommended for detection of TXA synthase of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TXA synthase siRNA (h): sc-62451, TXA synthase siRNA (m): sc-76779, TXA synthase shRNA Plasmid (h): sc-62451-SH, TXA synthase shRNA Plasmid (m): sc-76779-SH, TXA synthase shRNA (h) Lentiviral Particles: sc-62451-V and TXA synthase shRNA (m) Lentiviral Particles: sc-76779-V.

#### **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

#### **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 or our catalog for detailed protocols and support products.



Try **TXA synthase (Tü-300): sc-59395**, our highly recommended monoclonal alternative to TXA synthase (W-17).

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