



TXA synthase (Tü-300): sc-59395

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.

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CHROMOSOMAL LOCATION

Genetic locus: TBXAS1 (human) mapping to 7q34-q35; Tbxas1 (mouse) mapping to 6 F1-pter.

SOURCE

TXA synthase (Tü-300) is a mouse monoclonal antibody raised against full length native TXA synthase of human origin.

PRODUCT

Each vial contains 50 µg IgG_{2a} in 500 µl of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

TXA synthase (Tü-300) is recommended for detection of native TXA synthase of human origin by 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.

Molecular Weight of TXA synthase: 60.5 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Immunofluorescence: use goat anti-mouse IgG-FITC: sc-2010 (dilution range: 1:100-1:400) or goat anti-mouse IgG-TR: sc-2781 (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.