

Thromboxane synthase Antibody

Rabbit mAb Catalog # AP92425

Product Information

Application WB Primary Accession P24557

Reactivity Human, Mouse Clonality Monoclonal

Other Names TS; TXS; CYP5; THAS; TXAS; CYP5A1; GHOSAL; BDPLT14;

IsotypeRabbit IgGHostRabbitCalculated MW60518

Additional Information

Dilution WB 1:500~1:2000

Purification Affinity-chromatography

ImmunogenA synthesized peptide derived from human Thromboxane synthaseDescriptionThis gene encodes a member of the cytochrome P450 superfamily of

enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol,

steroids and other lipids.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

Protein Information

Name TBXAS1

Synonyms CYP5, CYP5A1 {ECO:0000303 | PubMed:1146554

Function Catalyzes the conversion of prostaglandin H2 (PGH2) to thromboxane A2

(TXA2), a potent inducer of blood vessel constriction and platelet aggregation

(PubMed: 11097184, PubMed: 11297515, PubMed: 22735388,

PubMed:<u>24009185</u>, PubMed:<u>8436233</u>, PubMed:<u>9873013</u>). Also cleaves PGH2 to 12-hydroxy-heptadecatrienoicacid (12-HHT) and malondialdehyde, which is known to act as a mediator of DNA damage. 12- HHT and malondialdehyde

are formed stoichiometrically in the same amounts as TXA2

(PubMed: 11297515, PubMed: 22735388, PubMed: 9873013). Additionally,

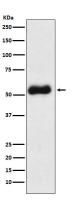
displays dehydratase activity, toward (15S)-hydroperoxy-

(5Z,8Z,11Z,13E)-eicosatetraenoate (15(S)-HPETE) producing 15-KETE and

15-HETE (PubMed: 17459323).

Cellular Location Endoplasmic reticulum membrane; Multi-pass membrane protein

Images



Western blot analysis of Thromboxane synthase expression in Human fetal liver lysate.

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