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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;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	60518

Additional Information

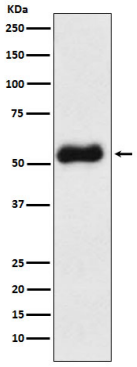
Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Thromboxane synthase
Description	This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved 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:24009185, PubMed:8436233, PubMed:9873013). 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

Tissue Location	Platelets, lung, kidney, spleen, macrophages and lung fibroblasts.

Images



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