

Recombinant Human TBXAS1, GST-tagged

Cat. No. TBXAS1-3147H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TBXAS1(1 a.a. - 466 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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. However, this protein is considered a member of the cytochrome P450 superfamily on the basis of sequence similarity rather than functional similarity. This endoplasmic reticulum membrane protein catalyzes the conversion of prostglandin H2 to thromboxane A2, a potent vasoconstrictor and inducer of platelet aggregation. The enzyme plays a role in several pathophysiological processes including hemostasis, cardiovascular disease, and stroke. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	77.00 kDa
AA Sequence	MELRKLYGPLCGYYLGRRMFIVISEPDMIKQVLVENFSNFTNRMASGLEFKSVADSV LFLRDKRWEEVRGALMSA FSPEKLNEMVPLISQACDLLLAHLKRYAESGDAFDIQR CYCNYTTDVVASVAFGTPVDSWQAPEDPFVKHCKRFF EFCIPRPILVLLLSFPSIMV PLARILPNKNRDELNGFFNKLIRNVIALRDQQAEEERRRDFLQMVLDARHSASPM G

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VQDFDIVRDVFSSTGCKPNPSRQHQPSPMARPLTVDEIVGQAFIFLIAGYEIITNTLSF
 ATYLLATNPDCQEK LREVDVFKEKHMAPEFCSLEEGLPYLDMVAETLRMYPPAFR
 FTREAAQDCEVLGQRIPAGAVLEMAVGALHHDP EHWSPETFNPERFTAEARQQH
 RPFTYLPFGAGPRSC LGVRLGLLEVKL TLLHVLHKFRFQACPETQVPLQLESK SALG
 PKNGVYIKIVSR

Applications ELISA; WB-Re; AP; Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [TBXAS1 thromboxane A synthase 1 \(platelet\) \[Homo sapiens \(human\) \]](#)

Official Symbol TBXAS1

Synonyms TBXAS1; thromboxane A synthase 1 (platelet); thromboxane A synthase 1 (platelet, cytochrome P450, subfamily V); thromboxane-A synthase; CYP5; CYP5A1; cytochrome P450; family 5; subfamily A; polypeptide 1; THAS; TS; TXAS; TXS; TXA synthase; cytochrome P450 5A1; platelet, cytochrome P450, subfamily V; cytochrome P450, family 5, subfamily A, polypeptide 1; thromboxane A synthase 1 (platelet, cytochrome P450, family 5, subfamily A); GHOSAL; BDPLT14; FLJ52771

Gene ID [6916](#)

mRNA Refseq [NM_001061](#)

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Protein Refseq	NP_001052
MIM	274180
UniProt ID	P24557
Chromosome Location	7q34-q35
Pathway	Arachidonic acid metabolism; Biological oxidations; Defective CYP19A1 causes Aromatase excess syndrome (AEXS); Defective CYP21A2 causes Adrenal hyperplasia 3 (AH3)
Function	heme binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen

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