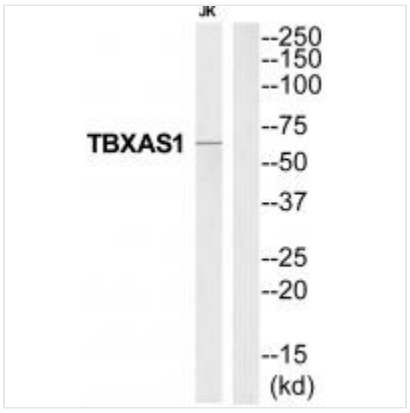
THAS Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	THAS, Polyclonal Antibody
Full Product Name	THAS Antibody
Product Gene Name	anti-THAS antibody
Product Synonym Names	CYP5; CYP5A1; Cytochrome P450 5A1; cytochrome P450; family 5
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total THAS protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	52,287 Da
OMIM	231095
3D Structure	ModBase 3D Structure for P24557
Immunogen Type	Peptide
Immunogen Description	Synthesized peptide derived from C-terminal of human THAS.
Target Name	THAS
Product Categories/Family for anti-THAS antibody	Total protein Ab
Applications Tested/Suitable for anti-THAS antibody	Western Blot (WB)
Application Notes for anti-THAS antibody	Western blotting: 1:500~1:3000
Related Product Information for anti-THAS antibody	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.Yokoyama C., Biochem. Biophys. Res. Commun. 178:1479-1484(1991).Ohashi K., J. Biol. Chem. 267:789-793(1992).Miyata A., Eur. J. Biochem. 224:273-279(1994).
Other Notes	Small volumes of anti-THAS antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for THAS purchase	MBS9405983 is an antibody targeting THAS. Also known as THAS Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-THAS antibody
Western blot analysis of extracts from Jurkat cells, using THAS antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for THAS. It may not necessarily be applicable to this product.

NCBI GI #	195972898
NCBI GeneID	6916
NCBI Accession #	NP_001052.2
UniProt Primary Accession #	P24557
UniProt Secondary Accession #	O14987; Q16843; Q16844; Q8IUN1; Q96CN2; Q9GZW4; Q9HD77; B4DJG6; E7EMU9; E7EP08; E7ESB5
UniProt Related Accession #	P24557
GenBank Nucleotide #	NM_001061.4
NCBI Official Full Name	thromboxane-A synthase isoform 1
NCBI Official Synonym Full Names	thromboxane A synthase 1 (platelet)
NCBI Official Symbol	TBXAS1
NCBI Official Synonym Symbols	TS; TXS; CYP5; THAS; TXAS; CYP5A1; GHOSAL; BDPLT14
UniProt Protein Name	Thromboxane-A synthase
UniProt Synonym Protein Names	Cytochrome P450 5A1
UniProt Gene Name	TBXAS1
UniProt Synonym Gene Names	CYP5; CYP5A1; TXA synthase; TXS
UniProt Entry Name	THAS_HUMAN
NCBI Protein Information	thromboxane-A synthase
NCBI Summary for THAS	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. [provided by RefSeq, Aug 2008]

UniProt Comments for THAS	TBXAS1: Defects in TBXAS1 are the cause of Ghosal hematodiaphyseal dysplasia (GHDD). GHDD is a rare autosomal recessive disorder characterized by increased bone density with predominant diaphyseal involvement and aregenerative corticosteroid-sensitive anemia. Aregenerative anemia is characterized by bone marrow failure, so that functional marrow cells are regenerated slowly or not at all. Defects in TBXAS1 are the cause of thromboxane synthetase deficiency (TBXAS1 deficiency). It is characterized by hemorrhagic diathesis. Belongs to the cytochrome P450 family. Protein type: Lipid Metabolism - arachidonic acid; Membrane protein, multi-pass; Membrane protein, integral; EC 5.3.99.5; Oxidoreductase; Isomerase Chromosomal Location of Human Ortholog: 7q34-q35 Cellular Component: endoplasmic reticulum membrane; integral to membrane Molecular Function: oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; thromboxane-A synthase activity; iron ion binding; heme binding; monooxygenase activity Biological Process: xenobiotic metabolic process; icosanoid metabolic process; cyclooxygenase pathway; positive regulation of vasoconstriction; arachidonic acid metabolic process; cellular chloride ion homeostasis Disease: Ghosal Hematodiaphyseal Dysplasia; Bleeding Disorder, Platelet-type, 14
Research Articles on THAS	**1.** The cardiovascular events significantly morefrequently occurred during 12 and 18 months in resistant diabetics and in the patients with an allele lacking the *2/*3 CYP2C9 gene function and AT/TT polymorphism of the thromboxane synthase gene TBS1.
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