

Product datasheet for **CF501379**

TBXAS1 Mouse Monoclonal Antibody [Clone ID: OTI1C3]

Product data:

| | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI1C3 |
| Applications: | FC, IF, IHC, WB |
| Recommended Dilution: | WB 1:500, IHC 1:50, IF 1:100, FLOW 1:100 |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Immunogen: | Full length human recombinant protein of human TBXAS1 (NP_001052) produced in HEK293T cell. |
| Formulation: | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose) |
| Reconstitution Method: | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 60.5 kDa |
| Gene Name: | thromboxane A synthase 1 |
| Database Link: | NP_001052 Entrez Gene 6916 Human P24557 |



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Background:

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]

Synonyms:

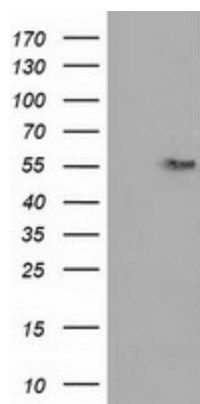
BDPLT14; CYP5; CYP5A1; GHOSAL; THAS; TS; TXAS; TXS

Protein Families:

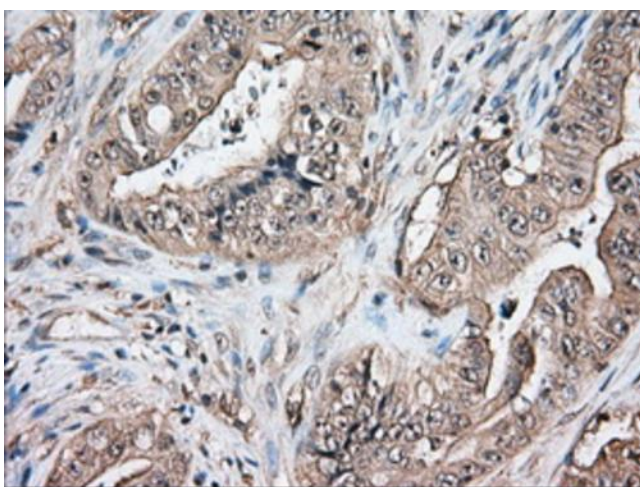
Druggable Genome, P450

Protein Pathways:

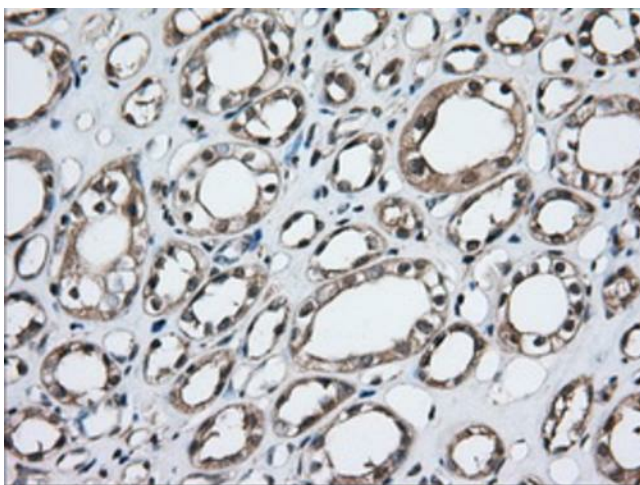
Arachidonic acid metabolism, Metabolic pathways

Product images:

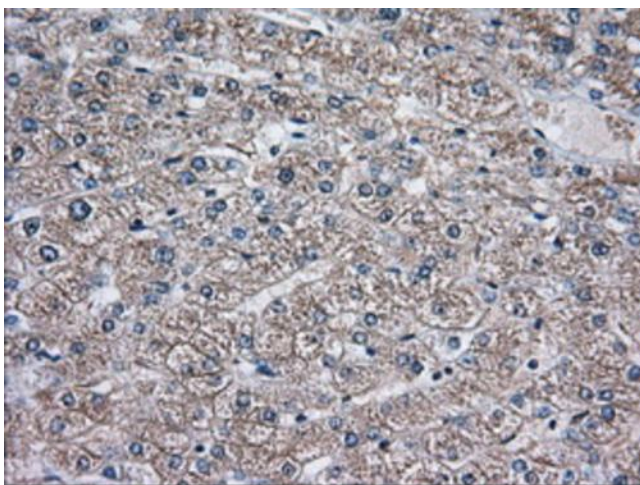
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY TBXAS1 ([RC208028], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TBXAS1. Positive lysates [LY420741] (100ug) and [LC420741] (20ug) can be purchased separately from OriGene.



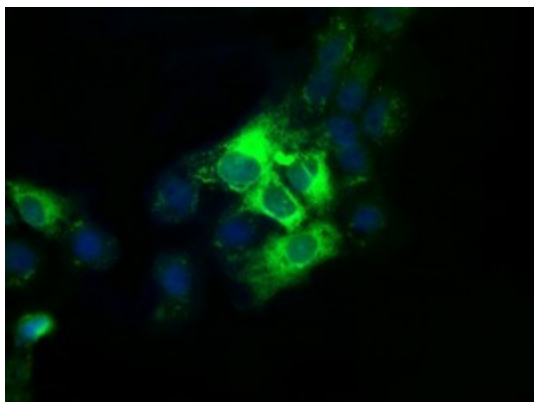
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-TBXAS1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501379], Dilution 1:50)



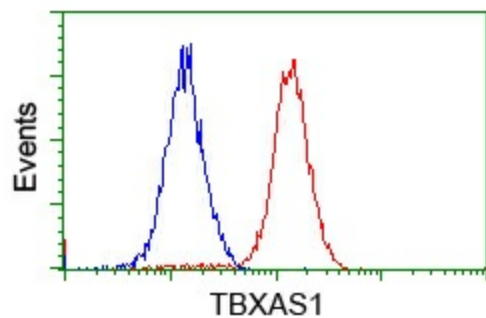
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-TBXAS1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501379], Dilution 1:50)



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-TBXAS1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA501379], Dilution 1:50)



Anti-TBXAS1 mouse monoclonal antibody ([TA501379]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY TBXAS1 ([RC208028]).



Flow cytometric Analysis of Jurkat cells, using anti-TBXAS1 antibody ([TA501379]), (Red), compared to a nonspecific negative control antibody (TA50011), (Blue).