

# TBXAS1 Monoclonal antibody

Catalog Number: 67371-1-Ig

Featured Product

1 Publications

## Basic Information

Catalog Number:

67371-1-Ig

Size:

1900 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG29177

GenBank Accession Number:

BC014117

GeneID (NCBI):

6916

UNIPROT ID:

P24557

Full Name:

thromboxane A synthase 1 (platelet)

Calculated MW:

60 kDa

Observed MW:

52 kDa

Purification Method:

Protein A purification

CloneNo.:

1F6G6

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:1000-1:4000

## Applications

Tested Applications:

WB, IHC, FC (Intra), ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, pig

Cited Species:

mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : human peripheral blood platelets, A549 cells, human placenta tissue, pig blood

IHC : human lung cancer tissue,

## Background Information

TBXAS1 catalyzes the conversion of the prostaglandin endoperoxide into thromboxane A2 as a potent vasoconstrictor and inducer of platelet aggregation. It was identified as novel airway fibroblast-specific markers with integrin-8 (ITGA8) (PMID:20435685). It was observed in the epithelium. It is a monomer with the molecular weight of 60 kDa. It also has two variants with 60.5 kDa and 52.3 kDa (PMID:1730669). It also reveals a molecular weight of 55 kDa in human uterus (PMID:1386258).

## Notable Publications

Author	Pubmed ID	Journal	Application
Katharina Mederle	26017977	Am J Physiol Renal Physiol	WB, IHC

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

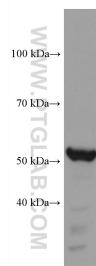
For technical support and original validation data for this product please contact:

T: 4006900926

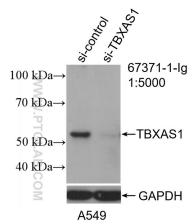
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

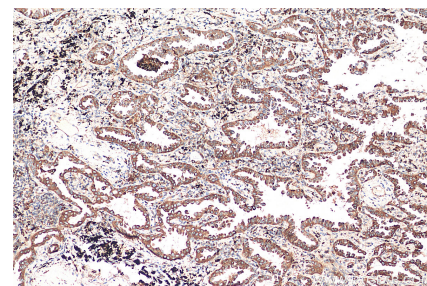
## Selected Validation Data



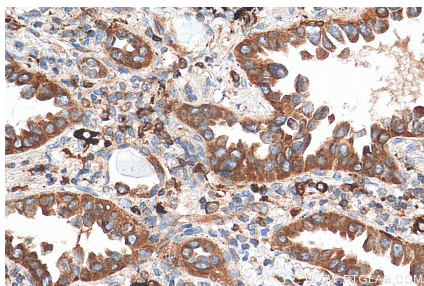
Human peripheral blood platelets were subjected to SDS PAGE followed by western blot with 67371-1-Ig (TBXAS1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



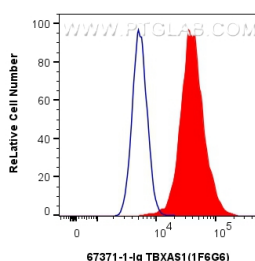
WB result of TBXAS1 antibody (67371-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TBXAS1 transfected A549 cells.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 67371-1-Ig (TBXAS1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 67371-1-Ig (TBXAS1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



$1 \times 10^6$  A549 cells were intracellularly stained with 0.8  $\mu$ g TBXAS1 Monoclonal antibody (67371-1-Ig, Clone:1F6G6) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1) (red), or 0.8  $\mu$ g Mouse IgG2a isotype control Mouse McAb (66360-2-Ig, Clone: 11A1B2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).