

# TBXAS1 Polyclonal antibody

 Catalog Number: **11321-1-AP** **3 Publications**

## Basic Information

<b>Catalog Number:</b> 11321-1-AP	<b>GenBank Accession Number:</b> BC014117	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 290 µg/ml	<b>GeneID (NCBI):</b> 6916	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P24557	
<b>Isotype:</b> IgG	<b>Full Name:</b> thromboxane A synthase 1 (platelet)	
<b>Immunogen Catalog Number:</b> AG1807	<b>Calculated MW:</b> 60 kDa <b>Observed MW:</b> 60 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IF, IHC	<b>WB :</b> A549 cells, human colon tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> human lung cancer tissue,
<b>Cited Species:</b> human	

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

## 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).

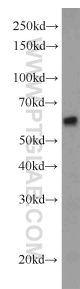
## Notable Publications

Author	Pubmed ID	Journal	Application
Mousa Ahmad A AA	22493072	Hypertension	WB, IHC
Singh Shailendra R SR	20435685	Am J Physiol Lung Cell Mol Physiol	IHC, IF
Shailendra R Singh	24886333	Respir Res	IF

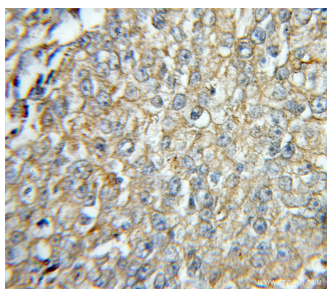
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
 Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



A549 cells were subjected to SDS PAGE followed by western blot with 11321-1-AP (TBXAS1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer using 11321-1-AP (TBXAS1 antibody) at dilution of 1:50 (under 10x lens).