

For Research Use Only

TBXA2R Polyclonal antibody

Catalog Number: 27159-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

27159-1-AP

Size:

300 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25670

GenBank Accession Number:

BC074750

GeneID (NCBI):

6915

UNIPROT ID:

P21731

Full Name:

thromboxane A2 receptor

Calculated MW:

343aa, 37 kDa; 1043aa, 113 kDa

Observed MW:

50-60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:16000

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Positive Controls:

WB : HT-29 cells, DU 145 cells, human placenta tissue, MCF-7 cells, PC-3 cells, Hela cells

IHC : human prostate cancer tissue, human breast cancer tissue

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

TBXA2R, also named as thromboxane A2 receptor, TXA2-R and Prostanoid TP receptor, belongs to G-protein coupled receptor 1 family. Thromboxane A2 receptor is a key molecule in hemostasis as its abnormality leads to bleeding disorders. The TXA2-R receptor is linked via a guanine nucleotide-binding protein (G protein) to phospholipase C (PLC), which hydrolyses phosphoinositides to the two potent stimulatory second messengers inositol 1,4,5-triphosphate (IP3) and diacylglycerol. IP3 causes increases in cytoplasmic free calcium and diacylglycerol causes activation of protein kinase C. In the kidney, the binding of TXA2-R to glomerular TP receptors causes intense vasoconstriction. The two isoforms expressed in cultured cells show similar ligand binding characteristics and phospholipase C (PLC) activation but oppositely regulate adenylyl cyclase activity (PMID: 8613548).

Notable Publications

Author	Pubmed ID	Journal	Application
Toshio Suzuki	35728047	Am J Respir Crit Care Med	WB
Meihe Li	33868179	Front Endocrinol (Lausanne)	WB, IHC
Deepika Narayanan	38822924	Arch Dermatol Res	

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

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

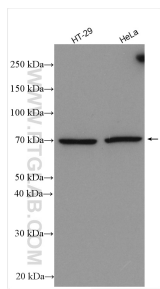
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E: Proteintech-CN@ptglab.com

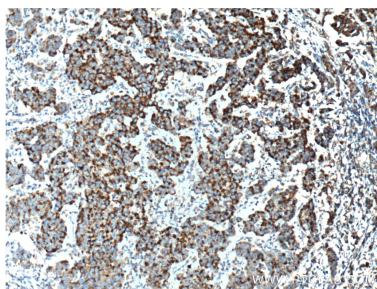
W: ptgcn.com

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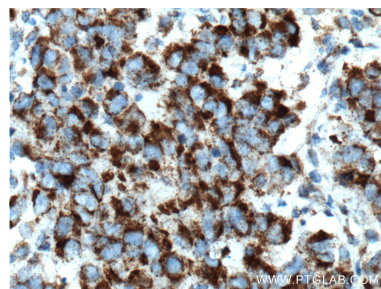
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27159-1-AP (TBXA2R antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 27159-1-AP (TBXA2R Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 27159-1-AP (TBXA2R Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).