

For Research Use Only

TXNDC15 Polyclonal antibody

Catalog Number: 32874-1-AP

Featured Product



Basic Information

Catalog Number:

32874-1-AP

Concentration:

250 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG37138

GenBank Accession Number:

BC032568

GeneID (NCBI):

79770

UNIPROT ID:

Q96J42

Full Name:

thioredoxin domain containing 15

Observed MW:

55 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB: 1:1000-1:6000

IHC: 1:300-1:1200

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human

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: HeLa cells, MCF-7 cells, RKO cells, fetal human brain tissue

IHC: human ovary cancer tissue,

Background Information

TXNDC15 (thioredoxin domain-containing protein 15) is a single-pass type I transmembrane protein that contains a thioredoxin domain and is primarily localized in the cytoplasm. It plays a positive regulatory role in the Hedgehog signaling pathway within cilia and actively participates in the process of ciliogenesis, exerting significant influence on the structure and function of cilia-an essential cellular organelle. Additionally, TXNDC15 has been found to form mixed disulfide complexes with endoplasmic reticulum-resident protein disulfide isomerase (PDI) family members, such as ERp57, PDI, and ERp44, suggesting its involvement in protein folding and quality control processes. Notably, mutations in the TXNDC15 gene are associated with a rare and lethal genetic disorder known as Meckel-Gruber syndrome, which is caused by defects in ciliogenesis.

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

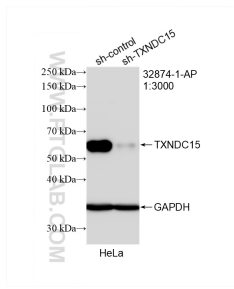
T: 4006900926

E: Proteintech-CN@ptglab.com

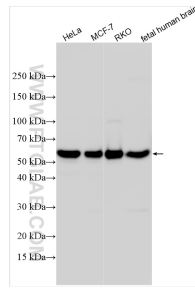
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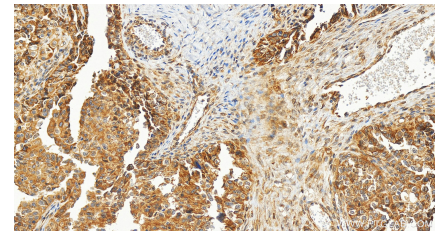
Selected Validation Data



WB result of TXNDC15 antibody (32874-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TXNDC15 transfected HeLa cells.



Various lysates were subjected to SDS PAGE followed by western blot with 32874-1-AP (TXNDC15 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 32874-1-AP (TXNDC15 antibody) at dilution of 1:600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).