

For Research Use Only

# TANC2 Polyclonal antibody

Catalog Number: 31541-1-AP



## Basic Information

Catalog Number:

31541-1-AP

Concentration:

450 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG35427

GenBank Accession Number:

NM\_001394998

GeneID (NCBI):

26115

UNIPROT ID:

Q9HCD6

Full Name:

tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2

Calculated MW:

219kDa

Observed MW:

220 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB 1:1000-1:6000

IF/ICC 1:200-1:800

## Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human

Positive Controls:

WB : HeLa cells, MCF-7 cells

IF/ICC : HeLa cells,

## Background Information

Tetratricopeptide repeat, ankyrin repeat, and coiled-coil containing 2 (TANC2), also known as KIAA1148 and KIAA1636, belongs to the TANC family. TANC2 is a large 220 kDa protein consisting of 1990 amino acid residues. Named after its domain architecture, it comprises tetratricopeptide (TPR) and ankyrin repeats (ANK), a coiled-coil domain, and a C-terminal PDZ-interacting motif. TANC2 is widely expressed in the developing human (in excitatory neurons and radial glial cells) and rodent brain as well as in the adult brain as a scaffold in the postsynaptic density (PSD) of excitatory neurons. As such, it facilitates cell signaling downstream of cell surface glutamate receptors through multi-protein complex formation with other PSD proteins (e.g. PSD95, SHANK1), influencing dendritic spine formation and synaptic strength (PMID: 33976205, 34964047).

## 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:

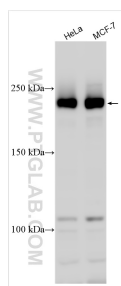
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

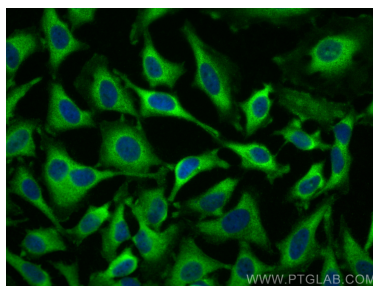
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31541-1-AP (TANC2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using TANC2 antibody (31541-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).