

For Research Use Only

# TANC2 Polyclonal antibody, PBS Only

Catalog Number: 31541-1-PBS



## Basic Information

**Catalog Number:**

31541-1-PBS

**Size:**

100ug, Concentration: 1 mg/ml by Nanodrop;

**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

## Applications

**Tested Applications:**

WB, IF/ICC, Indirect ELISA

**Species Specificity:**

human

## 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 -80°C.

**Storage Buffer:**

PBS Only

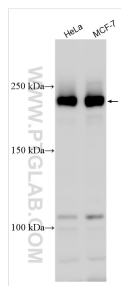
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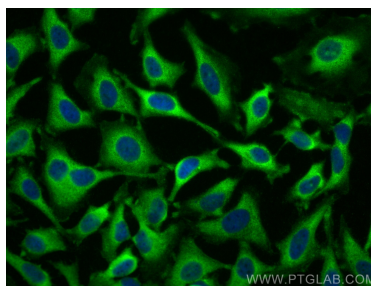
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## Selected Validation Data



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. This data was developed using the same antibody clone with 31541-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 31541-1-PBS in a different storage buffer formulation.