

TSN Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5088

Product Information

Application IF, IHC-P, WB Primary Accession Q15631

Other Accession <u>062348</u>, <u>P97891</u>, <u>008DM8</u>, <u>NP 004613.1</u>

Reactivity Mouse, Human

Predicted Mouse, Hamster, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 26183
Isotype Rabbit IgG
Antigen Source HUMAN

Additional Information

Gene ID 7247

Antigen Region 109-138

Other Names TSN; Translin; Component 3 of promoter of RISC

Dilution IF~~1:10~50 IHC-P~~1:100~500 WB~~1:1000

Target/Specificity This TSN antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 109-138 amino acids from the Central

region of human TSN.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

Storage Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions TSN Antibody (Center) is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

Name TSN (<u>HGNC:12379</u>)

Function DNA-binding protein that specifically recognizes consensus sequences at the

breakpoint junctions in chromosomal translocations, mostly involving

immunoglobulin (Ig)/T-cell receptor gene segments. Seems to recognize single-stranded DNA ends generated by staggered breaks occurring at recombination hot spots.

Cellular Location

Cytoplasm. Nucleus

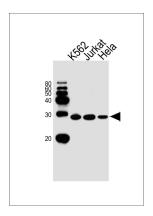
Background

This gene encodes a DNA-binding protein which specifically recognizes conserved target sequences at the breakpoint junction of chromosomal translocations. Translin polypeptides form a multimeric structure that is responsible for its DNA-binding activity. Recombination-associated motifs and translin-binding sites are present at recombination hotspots and may serve as indicators of breakpoints in genes which are fused by translocations. These binding activities may play a crucial role in chromosomal translocation in lymphoid neoplasms.

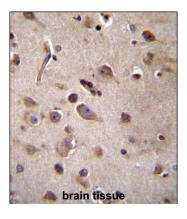
References

Chiaruttini, C., et al. Proc. Natl. Acad. Sci. U.S.A. 106(38):16481-16486(2009) Lasky-Su, J., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 147B (8), 1345-1354 (2008): Sengupta, K., et al. Biochemistry 45(3):861-870(2006) Kaluzhny, D., et al. J. Biomol. Struct. Dyn. 23(3):257-265(2005) Gupta, G.D., et al. FEBS Lett. 579(14):3141-3146(2005)

Images



Western blot analysis of lysates from K562, Jurkat, Hela cell line (from left to right), using TSN Antibody(Center)(Cat. #AW5088). AW5088 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



TSN Antibody (Center) (Cat. #AW5088)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of TSN Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Fluorescent confocal image of Hela cell stained with TSN Antibody(Center)(Cat#AW5088).Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with TSN primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488



conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10 μ g/ml, 10 min). TSN immunoreactivity is localized to Nucleus and Cytoplasm significantly.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.