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Translin Antibody

Catalog # ASC11331

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q15631
Other Accession	NP_004613, 4759270
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	26183
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	Translin antibody can be used for detection of Translin by Western blot at 0.5 - 1 μg/mL. Antibody can also be used for immunohistochemistry starting at 5 μg/mL. For immunofluorescence start at 20 μg/mL.

Additional Information

Gene ID	7247
Other Names	Translin, 3.1.-.-, Component 3 of promoter of RISC, C3PO, TSN
Target/Specificity	TSN; At least two isoforms of Translin are known to exist; this antibody will detect both.
Reconstitution & Storage	Translin antibody can be stored at 4 ℃, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	Translin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TSN (HGNC:12379)
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

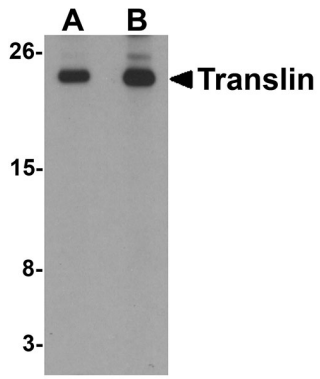
Background

Translin Antibody: Translin is 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. Recent evidence suggests that in combination with a binding partner Trax, Translin binds RNA and mediates trafficking in neurons.

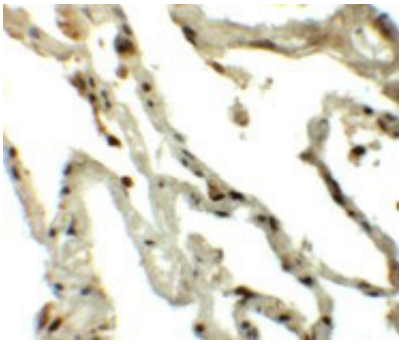
References

Aoki K, Susuki K, Sugano T, et al. A novel gene, Translin, encodes a recombination hotspot binding protein associated with chromosomal translocations. Nat. Genet. 1995; 10:167-74.
Li Z, Wu Y, and Baraban JM. The Translin/Trax RNA binding complex: clues to function in the nervous system. Biochim. Biophys. Acta 2008; 1779:479-85

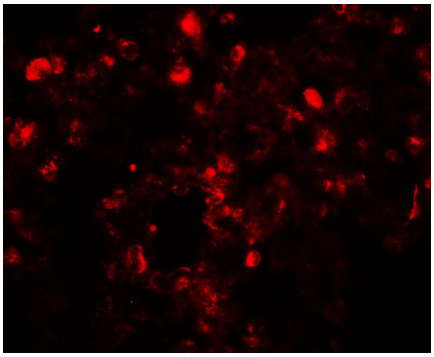
Images



Western blot analysis of Translin in rat lung tissue lysate with Translin antibody at (A) 0.5 and (B) 1 µg/mL



Immunohistochemistry of Translin in human lung tissue with Translin antibody at 5 µg/mL.



Immunofluorescence of Translin in human lung tissue with Translin antibody at 20 µg/mL.