

RTN4

CONTACT INFORMATION: Monoclonal Antibodies Unit. Centro Nacional de Investigaciones Oncológicas
STATUS: Validated
TYPE: mouse monoclonal
CLONE NAME: LIG198B
PROTEIN: Reticulon-4
PROTEIN WEB: <https://www.uniprot.org/uniprot/Q9NQC3>
ANTIGEN USED: HDLM2 cell line
FUSION PARTNER: NS1/Ag4-1 (NS1) cells
ISOTYPE: IgG3
SPECIES REACTIVITY: Human
PREPARATION AND STORAGE: Aliquot and store at 4C. Do not freeze

DESCRIPTION

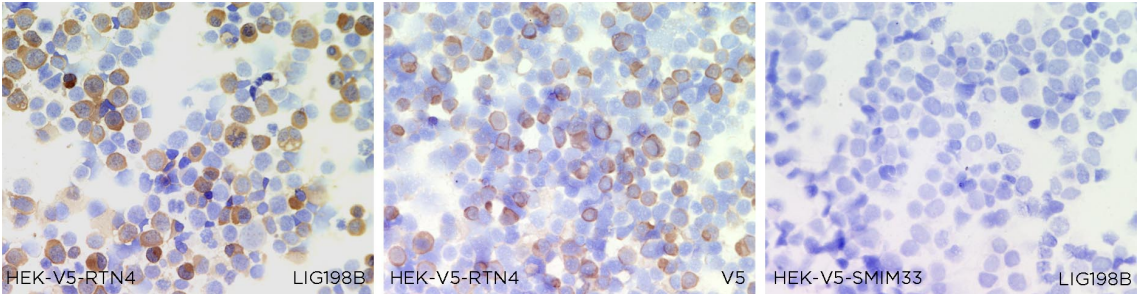
Required to induce the formation and stabilization of endoplasmic reticulum (ER) tubules. They regulate membrane morphogenesis in the ER by promoting tubular ER production. They influence nuclear envelope expansion, nuclear pore complex formation and proper localization of inner nuclear membrane proteins. However each isoform have specific functions mainly depending on their tissue expression specificities.

APPLICATIONS

IHC Techniques	Clone	Dilution	Antibody concentration	Antigen retrieval method	Visualization kit	Positive control	Negative control	Protein localization	Positivity in other species
Frozen tissue and cytopspins									
Recommended	LIG198B	Neat	supernatant						
Paraffin tissue									
Recommended	LIG198B	1:50	supernatant						

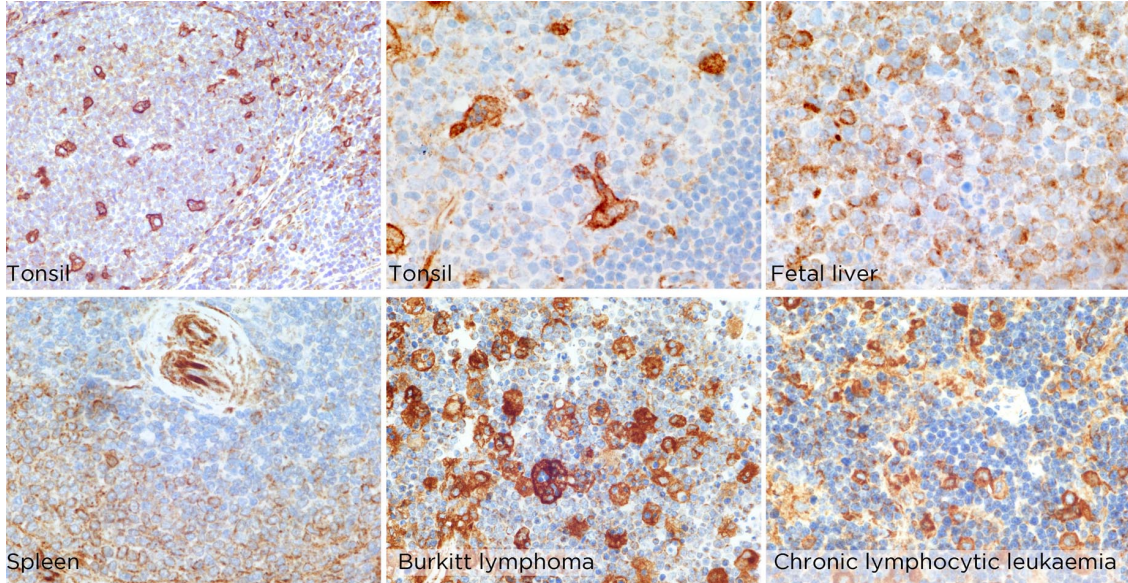
Immunofluorescence

Recommended	LIG198B	Neat	supernatant						
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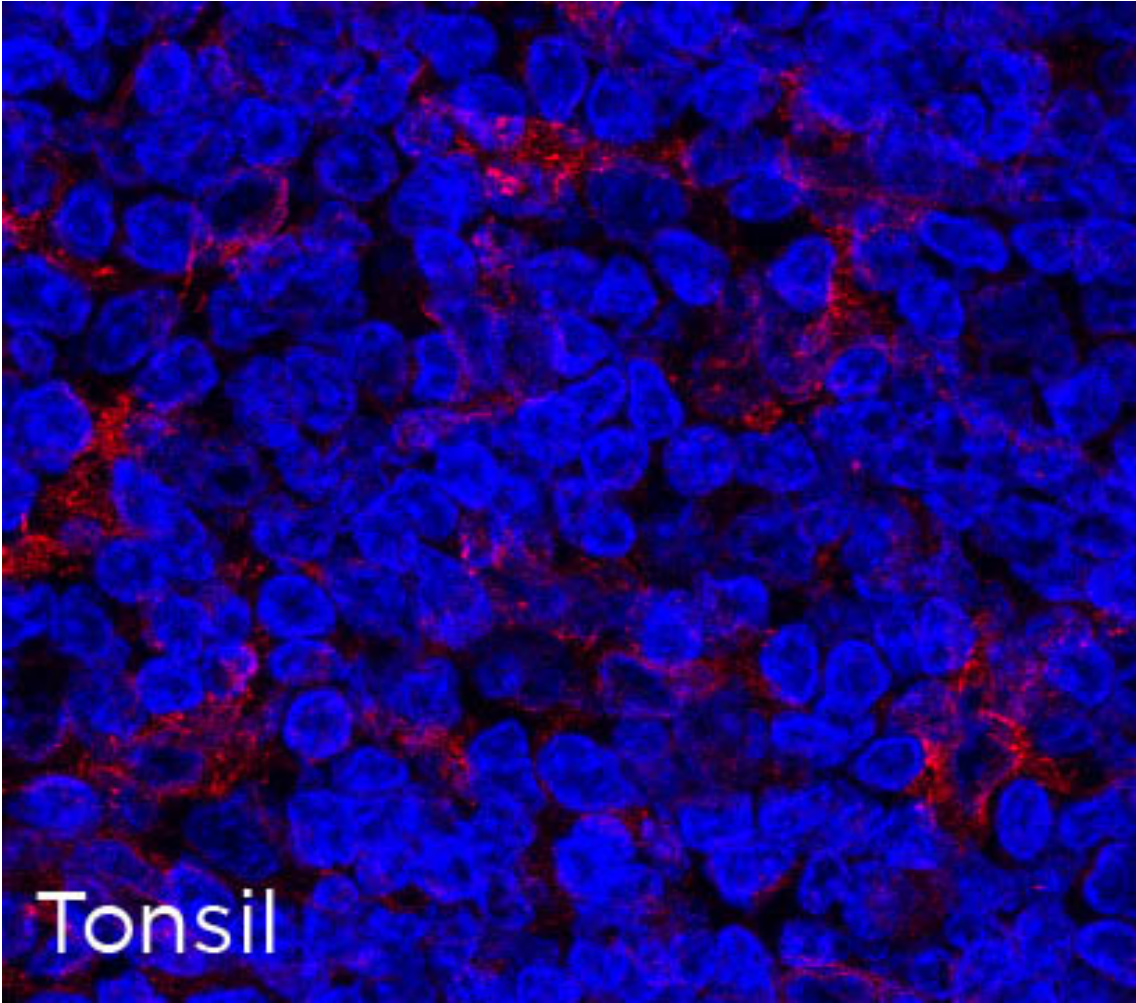


LIG198B is able to detect human RTN4 protein in immunocytochemistry

To confirm that LIG198B mAb recognizes human RTN4 protein, immunocytochemistry on frozen cytospin preparations of V5-tagged RTN4 isoform2 expressed in HEK293T was performed. Anti-V5 was used as a positive control.



LIG198B mAb can be used to detect RTN4 protein in human paraffin tissues



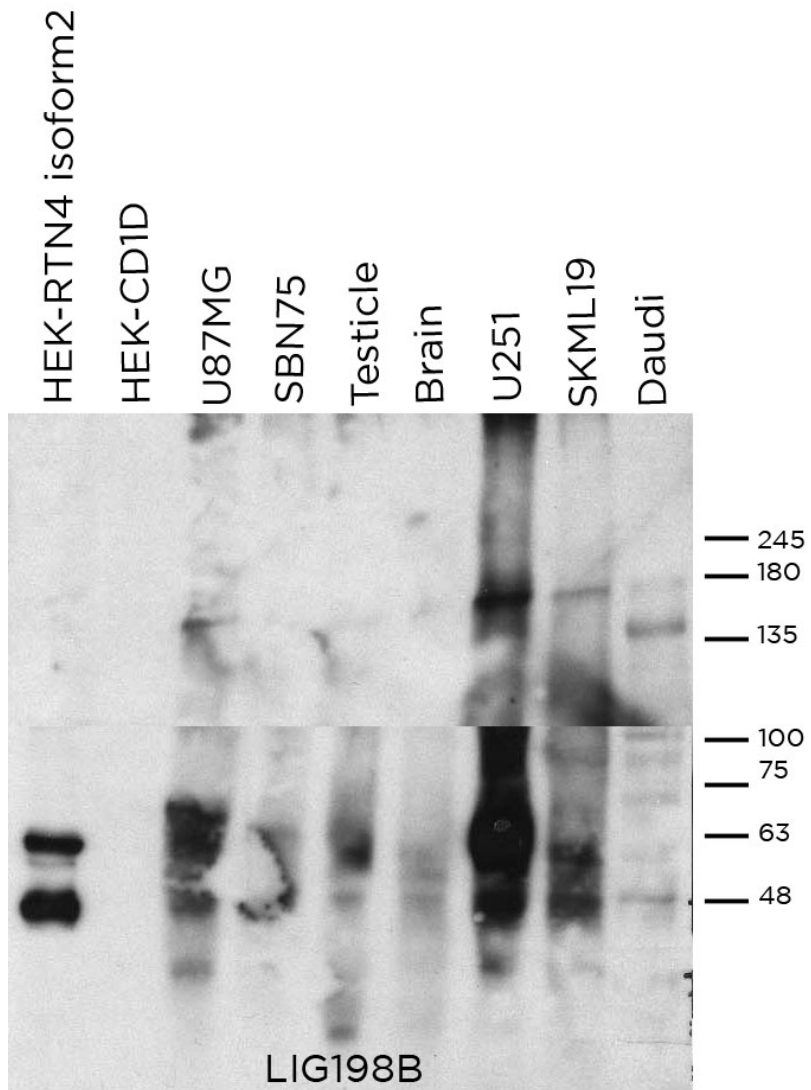
LIG198B mAb can be used to detect RTN4 protein by immunofluorescence

WB Techniques	Clone	Dilution	Antibody concentration	Positive control	Negative control	Expected MW	Observed Mw	Positivity in other species
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Western Blotting

Recommended	LIG198B	Neat	supernatant					
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Immunoprecipitation



LIG198B mAb is able to detect human RTN4 protein by WB.

Isoform 1: 130KDA

Isoform 2: 40KDA

Isoform 3: 22KDA

Isoform 4: 106KDA

Isoform 5: 42KDA

Isoform 6: 108KDA

Observed molecular weight: 140-160Kda and 48-60kda

The samples were divided in to two gels to allow the observation of all the isoforms of the RTN4 protein.

LANES

Lane 1 Hek-RTN4 isoform2 (50ug)

Lane 2 Hek-CD10 (50ug)

Lane 3 U87MG (100ul)

Lane 4 SBN75 (100ul)

Lane 5 Testicle (100ul)

Lane 6 Brain (100ul)

Lane 7 U251 (100ul)

Lane 8 SKML19 (100ul)

Lane 9 Daudi (100ul)