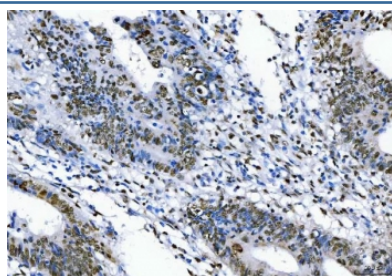


TLS Antibody / Translocated in liposarcoma protein / FUS (RQ6869)

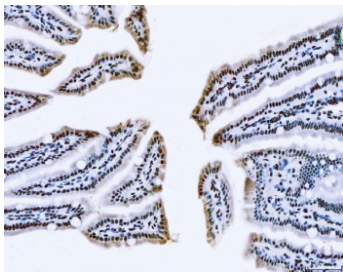
Catalog No.	Formulation	Size
RQ6869	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

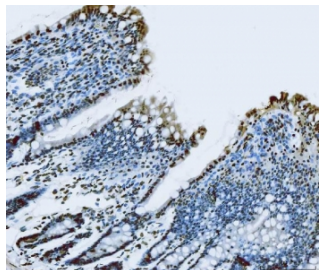
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P35637
Localization	Nuclear
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence (FFPE) : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This TLS antibody is available for research use only.



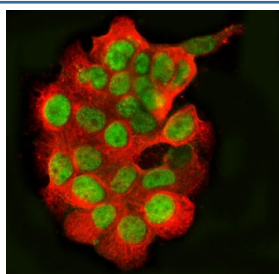
IHC staining of FFPE human rectal cancer tissue with TLS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



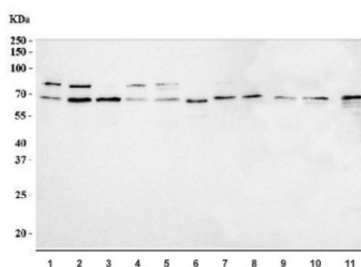
IHC staining of FFPE mouse colon tissue with TLS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



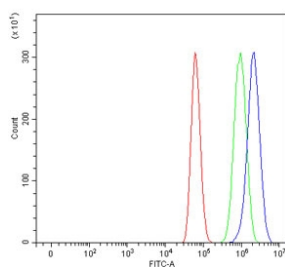
IHC staining of FFPE rat colon tissue with TLS antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



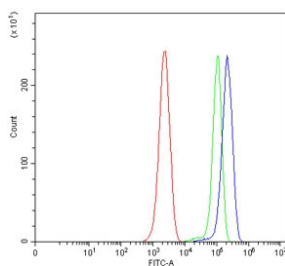
Immunofluorescent staining of FFPE human A431 cells with TLS antibody (green) and Phalloidin (red). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HeLa, 2) human K562, 3) human 293T, 4) human Caco-2, 5) human Jurkat, 6) human HL60, 7) human HepG2, 8) human SH-SY5Y, 9) rat brain, 10) rat PC-12 and 11) mouse NIH 3T3 cell lysate with TLS antibody. Predicted molecular weight ~53 kDa but routinely observed at up to ~75 kDa.



Flow cytometry testing of human U-87 MG cells with TLS antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TLS antibody.



Flow cytometry testing of mouse ANA-1 cells with TLS antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TLS antibody.

Description

RNA-binding protein FUS/TLS (Fused in Sarcoma/Translocated in Sarcoma) is a protein that in humans is encoded by the FUS gene. This gene encodes a multifunctional protein component of the heterogeneous nuclear ribonucleoprotein (hnRNP) complex. The hnRNP complex is involved in pre-mRNA splicing and the export of fully processed mRNA to the cytoplasm. This protein belongs to the FET family of RNA-binding proteins which have been implicated in cellular processes that include regulation of gene expression, maintenance of genomic integrity and mRNA/microRNA processing. Alternative splicing results in multiple transcript variants. Defects in this gene result in amyotrophic lateral sclerosis type 6.

Application Notes

Optimal dilution of the TLS antibody should be determined by the researcher.

Immunogen

Amino acids ENVTIESVADYFKQ from the human protein were used as the immunogen for the TLS antibody.

Storage

After reconstitution, the TLS antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.