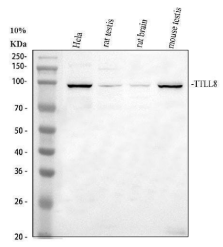
TTLL8 Antibody / Protein monoglycylase TTLL8 Antibody (FY13668)

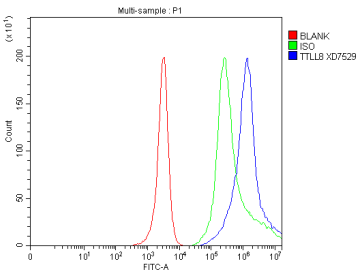
Catalog No.	Formulation	Size
FY13668	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	A6PVC2
Applications	Western blot: 0.5-1ug/ml Flow cytometry: 1-3ug/million cells ELISA: 0.1-0.5 ug/ml
Limitations	This TTLL8 Antibody / Protein monoglycylase TTLL8 Antibody is supplied exclusively for research use.



TTLL8 Antibody by WB in Human and Rodent Lysates. Western blot analysis of TTLL8 using TTLL8 Antibody and Protein monoglycylase TTLL8 Antibody in four samples. Lane 1 contains HeLa whole-cell lysate, lane 2 rat testis, lane 3 rat brain, and lane 4 mouse testis. The blot shows immunoreactive bands near 95 kDa in the four lanes, consistent with the reported 94.7 kDa calculated mass. The bands are readily distinguishable from the molecular weight ladder, with differences in apparent intensity across samples. This image supports detection at the expected migration position in the tested human and rodent materials without establishing quantitative expression differences.



TTLL8 Antibody by FCM in Fixed HeLa Cells. Flow cytometry analysis of fixed and permeabilized HeLa cells stained with TTLL8 Antibody. The blue histogram represents the TTLL8-labeled population, green represents the rabbit IgG isotype control, and red represents the blank control. The blue population is shifted toward higher FITC-channel fluorescence relative to the isotype control. The primary antibody was detected with a Fluoro488-conjugated secondary antibody. These results concern intracellular staining of fixed cells and do not demonstrate surface labeling of viable cells.

Description

TTLL8 Antibody / Protein monoglycylase TTLL8 Antibody targets TTLL8, a member of the tubulin tyrosine ligase-like enzyme family involved in post-translational modification of microtubules. Several TTLL proteins catalyze addition of amino acids to the acidic tails of tubulin, creating modifications that can influence interactions between microtubules and associated proteins. TTLL8 is associated with tubulin glycylation, a modification particularly relevant to the specialized microtubule arrays of cilia and flagella.

Glycylation involves the attachment of glycine residues to tubulin tails. The initiation of a glycine side chain, often termed monoglycylation, is distinct from subsequent extension into longer polyglycine chains. Different enzymes can participate in these stages, and their activities are balanced by other modification systems. Tubulin glycylation is part of the broader tubulin code, in which combinations of modifications influence the properties and recognition of microtubules without changing the underlying tubulin sequence.

Ciliary axonemes contain highly ordered microtubule doublets that must remain stable while supporting repeated motor-driven bending. Modifications of tubulin tails may affect axonemal architecture, interactions with motor complexes, and long-term ciliary function. TTLL-family enzymes differ in substrate preference and tissue distribution, so the effects observed for one glycylase cannot automatically be assigned to TTLL8. Understanding the enzyme's specific contributions requires separating its catalytic activity from those of related family members and assessing how different modification patterns coexist on axonemal tubulin.

NSJ Bioreagents offers this TTLL8 Antibody to support investigation of tubulin monoglycylation and the enzymatic mechanisms that establish specialized ciliary microtubule surfaces. Mapping the contributions of individual glycylases may help explain how cilia preserve both mechanical resilience and dynamic movement.

Explore related research targets in our Cell Biology Antibodies collection.

Application Notes

The appropriate working dilution of the TTLL8 Antibody / Protein monoglycylase TTLL8 Antibody should be optimized by the end user.

Immunogen

The TTLL8 Antibody was generated using e. coli-derived human TTLL8 recombinant protein (amino acids S35-Q485).

Storage

Once reconstituted, refrigerate the TTLL8 Antibody at 4oC for no longer than one month. For extended storage, freeze aliquots at -20oC for up to six months and avoid repeated freeze-thaw cycles.

Alternate Names

TTLL8 antibody, Protein monoglycylase TTLL8 antibody, tubulin tyrosine ligase like 8 antibody, EC 6.3.2.- antibody, Tubulin--tyrosine ligase-like protein 8 antibody, TTLL8 rabbit polyclonal antibody

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