

TTLL4 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12581c

Specification

TTLL4 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q14679
Other Accession	NP_055455.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	133378
Antigen Region	464-493

TTLL4 Antibody (Center) - Additional Information

Gene ID 9654

Other Names

Tubulin polyglutamylase TTLL4, 6---, Tubulin--tyrosine ligase-like protein 4, TTLL4, KIAA0173

Target/Specificity

This TTLL4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 464-493 amino acids from the Central region of human TTLL4.

Dilution

WB~~1:1000

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

TTLL4 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

TTLL4 Antibody (Center) - Protein Information

Name TTLL4 ([HGNC:28976](#))

Synonyms KIAA0173

Function Monoglutamylase which modifies both tubulin and non-tubulin proteins, adding a single glutamate on the gamma-carboxyl group of specific glutamate residues of target proteins. Involved in the side-chain initiation step of the polyglutamylation reaction but not in the elongation step. Preferentially modifies beta-tail tubulin over the alpha-tubulin. Monoglutamylates nucleosome assembly proteins NAP1L1 and NAP1L4. Monoglutamylates nucleotidyltransferase CGAS, leading to inhibition of CGAS catalytic activity, thereby preventing antiviral defense function. Involved in KLF4 glutamylation which impedes its ubiquitination, thereby leading to somatic cell reprogramming, pluripotency maintenance and embryogenesis.

Cellular Location

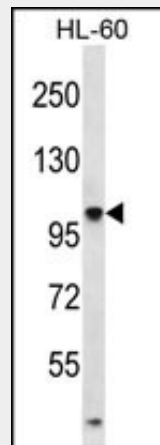
Cytoplasm {ECO:0000250|UniProtKB:Q80UG8}. Cell projection, cilium {ECO:0000250|UniProtKB:Q80UG8}. Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:Q80UG8} Note=Located in cilia. In some cells, also found in basal bodies {ECO:0000250|UniProtKB:Q80UG8}

TLL4 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TLL4 Antibody (Center) - Images



TLL4 Antibody (Center) (Cat. #AP12581c) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the TLL4 antibody detected the TLL4 protein (arrow).

TLL4 Antibody (Center) - Background

TLL4 is polyglutamylase which preferentially modifies beta-tubulin and nucleosome assembly proteins NAP1 and NAP2. It is involved in the side-chain initiation step of the polyglutamylation reaction rather than in the elongation step (By similarity).

TLL4 Antibody (Center) - References

Trichet, V., et al. Gene 257(1):109-117(2000)