

TTLL4 Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS16123**Specification**

TTLL4 Antibody (Internal) - Product Information

Application	IHC
Primary Accession	Q14679
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	133kDa KDa

TTLL4 Antibody (Internal) - Additional Information**Gene ID** 9654**Other Names**

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

Target/Specificity

Human TTLL4.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

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

TTLL4 Antibody (Internal) - 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

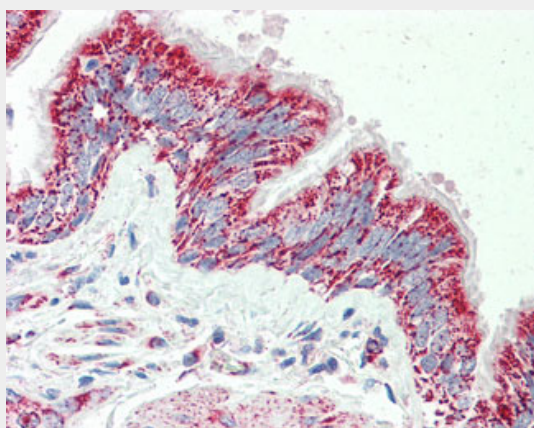
{ECO:0000250|UniProtKB:Q80UG8}. Cytoplasm, cytoskeleton, cilium basal body
{ECO:0000250|UniProtKB:Q80UG8} Note=Located in cilia. In some cells, also found in basal bodies {ECO:0000250|UniProtKB:Q80UG8}

TTLL4 Antibody (Internal) - 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](#)

TTLL4 Antibody (Internal) - Images



Anti-TTLL4 antibody IHC staining of human bronchus.

TTLL4 Antibody (Internal) - Background

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

TTLL4 Antibody (Internal) - References

Nagase T.,et al.DNA Res. 3:17-24(1996).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Mayya V.,et al.Sci. Signal. 2:RA46-RA46(2009).