

TTLL4 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3108a**Specification**

TTLL4 Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	Q14679
Other Accession	NP_055455.3 , 9654 , 67534 (mouse) , 690512 (rat)
Reactivity	Dog
Predicted	Human, Mouse, Rat
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	133378

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

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

Dilution

WB~~1:1000

E~~N/A

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

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

TTLL4 Antibody (internal region) - 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 region) - 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 region) - Images



AF3108a (1 µg/ml) staining of MDCK lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence

TTLL4 Antibody (internal region) - References

Characterization of the human tubulin tyrosine ligase-like 1 gene (TTLL1) mapping to 22q13.1. Trichet V, Ruault M, RoizÃ's G, De Sario A, Gene 2000 Oct 257 (1): 109-17. PMID: 11054573