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# TTLL11 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5291b

## Product Information

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|---|---|
| **Application** | WB, FC, E |
| **Primary Accession** | Q8NHH1 |
| **Reactivity** | Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB26281 |
| **Calculated MW** | 79091 |
| **Antigen Region** | 399-427 |

## Additional Information

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| **Gene ID** | 158135 |
| **Other Names** | Tubulin polyglutamylase TTLL11, 6---, Tubulin--tyrosine ligase-like protein 11, TTLL11, C9orf20 |
| **Target/Specificity** | This TTLL11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 399-427 amino acids from the C-terminal region of human TTLL11. |
| **Dilution** | WB~~1:1000 FC~~1:10~50 E~~Use at an assay dependent concentration. |
| **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** | TTLL11 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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|---|---|
| **Name** | TTLL11 ( HGNC:18113) |
| **Synonyms** | C9orf20 |
| **Function** | Polyglutamylase which modifies tubulin, generating polyglutamate side chains of variable lengths on the gamma-carboxyl group of specific glutamate |

residues within the C-terminal tail of tubulin. Preferentially mediates ATP-dependent polyglutamate long side- chain elongation over the initiation step of the polyglutamylation reaction. Preferentially modifies the alpha-tubulin tail over a beta- tail (By similarity). Required for CCSAP localization to both spindle and cilia microtubules (PubMed:22493317). Promotes tubulin polyglutamylation which stimulates spastin/SPAST-mediated microtubule severing, thereby regulating microtubule functions (By similarity).

**Cellular Location** Cytoplasm, cytoskeleton, cilium basal body {ECO:0000250|UniProtKB:A4Q9F4}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:A4Q9F4}

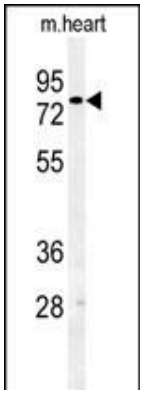
## Background

TTLL11 is polyglutamase which preferentially modifies alpha-tubulin. It is involved in the side-chain elongation step of the polyglutamylation reaction rather than in the initiation step.

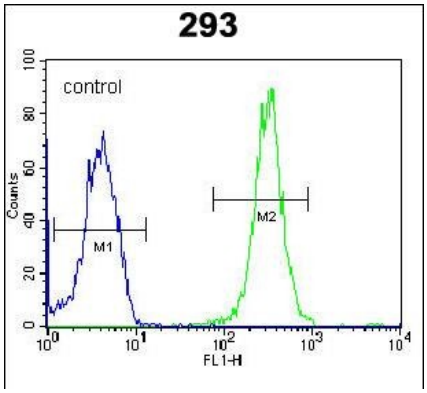
## References

Janke, C., et al. Science 308(5729):1758-1762(2005)
Humphray, S.J., et al. Nature 429(6990):369-374(2004)

## Images




Western blot analysis of TTLL11 Antibody (C-term) (Cat. #AP5291b) in mouse heart tissue lysates (35ug/lane).TTLL11 (arrow) was detected using the purified Pab.




TTLL11 Antibody (C-term) (Cat. #AP5291b) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.