

TTK (phospho Thr676) Polyclonal Antibody

Catalog # AP67994

Product Information

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|-------------------|------------------------|
| Application | IHC-P, IF, ICC, E |
| Primary Accession | P33981 |
| Reactivity | Human, Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 97072 |

Additional Information

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| Gene ID | 7272 |
| Other Names | TTK; MPS1; MPS1L1; Dual specificity protein kinase TTK; Phosphotyrosine picked threonine-protein kinase; PYT |
| Dilution | IHC-P~~Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A |
| Format | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| Storage Conditions | -20°C |

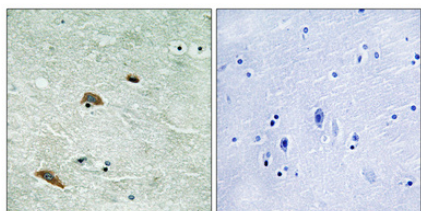
Protein Information

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|-----------------|---|
| Name | TTK |
| Synonyms | MPS1, MPS1L1 |
| Function | Involved in mitotic spindle assembly checkpoint signaling, a process that delays anaphase until chromosomes are bioriented on the spindle, and in the repair of incorrect mitotic kinetochore-spindle microtubule attachments (PubMed: 18243099 , PubMed: 28441529 , PubMed: 29162720). Phosphorylates MAD1L1 to promote the mitotic spindle assembly checkpoint (PubMed: 18243099 , PubMed: 29162720). Phosphorylates CDCA8/Borealin leading to enhanced AURKB activity at the kinetochore (PubMed: 18243099). Phosphorylates SKA3 at 'Ser-34' leading to dissociation of the SKA complex from microtubules and destabilization of microtubule-kinetochore attachments (PubMed: 28441529). Phosphorylates KNL1, KNTC1 and autophosphorylates (PubMed: 28441529). Phosphorylates MCRS1 which enhances recruitment of KIF2A to the minus end of spindle microtubules and promotes chromosome alignment (PubMed: 30785839). |
| Tissue Location | Present in rapidly proliferating cell lines. |

Background

Phosphorylates proteins on serine, threonine, and tyrosine. Probably associated with cell proliferation. Essential for chromosome alignment by enhancing AURKB activity (via direct CDCA8 phosphorylation) at the centromere, and for the mitotic checkpoint.

Images



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negative contrl (right) obtained from antibody was pre-absorbed by immunogen peptide.

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