

TTK (phospho Thr676) Polyclonal Antibody
Catalog # AP67994**Specification****TTK (phospho Thr676) Polyclonal Antibody - Product Information**

Application	IHC-P
Primary Accession	P33981
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

TTK (phospho Thr676) Polyclonal Antibody - Additional Information**Gene ID** 7272**Other Names**

TTK; MPS1; MPS1L1; Dual specificity protein kinase TTK; Phosphotyrosine picked threonine-protein kinase; PYT

Dilution

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

TTK (phospho Thr676) Polyclonal Antibody - Protein Information**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:18243099).

[28441529](http://www.uniprot.org/citations/28441529)).
Phosphorylates KNL1, KNTC1 and autophosphorylates (PubMed:[28441529](http://www.uniprot.org/citations/28441529)).
Phosphorylates MCRS1 which enhances recruitment of KIF2A to the minus end of spindle microtubules and promotes chromosome alignment (PubMed:[30785839](http://www.uniprot.org/citations/30785839)).

Tissue Location

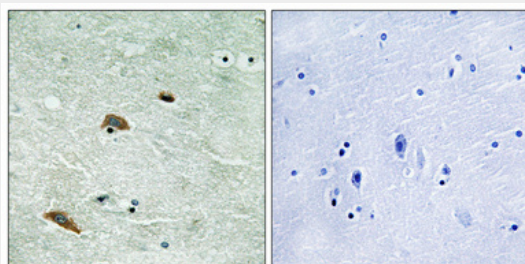
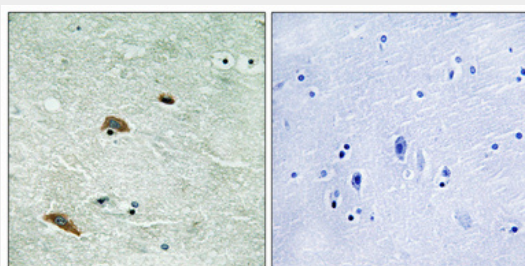
Present in rapidly proliferating cell lines.

TTK (phospho Thr676) Polyclonal Antibody - 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](#)

TTK (phospho Thr676) Polyclonal Antibody - Images



TTK (phospho Thr676) Polyclonal Antibody - 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.