# Rabbit anti-Human Mps1/TTK Polyclonal Antibody | anti-TTK antibody

Anti-Mps1/TTK Antibody, Rabbit Polyclonal

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA254432** | **Rabbit** | **Human** | **Immunofluorescence, Immunocytochemistry, Immunohistochemistry** |

## PRODUCT SYNONYMS

Mps1/TTK; Polyclonal Antibody; Anti-Mps1/TTK Antibody; Rabbit Polyclonal; TTK Antibody; Rabbit PAb; Antigen Affinity Purified; TTK protein kinase; Anti-CT96 Antibody; Anti-ESK Antibody; Anti-MPH1 Antibody; Anti-MPS1 Antibody; Anti-MPS1L1 Antibody; Anti-PYT Antibody; anti-TTK antibody

## PRODUCT SPECIFICATIONS

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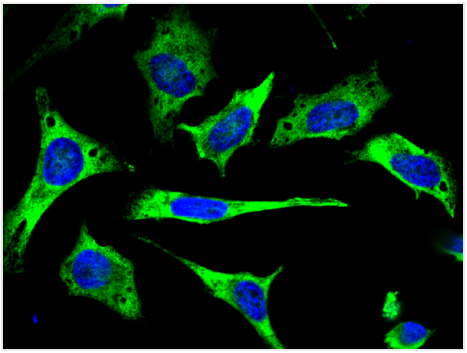
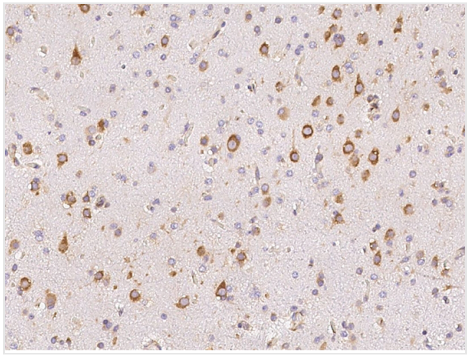
|---|---|
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Specificity** | Human TTK |
| **Purity/Purification** | Protein A & Antigen Affinity |
| **Form/Format** | Liquid; 0.2um filtered solution in PBS |
| **Applicable Applications for anti-TTK antibody** | IF (Immunofluorescence), ICC (Immunocytochemistry), IHC (Immunohistochemistry) |
| **Immunogen** | A synthetic peptide corresponding to the N-terminus of the Human TTK |
| **Conjugation** | Unconjugated |
| **Preparation** | Produced in rabbits immunized with a synthetic peptide corresponding to the N-terminus of the Human TTK, and purified by antigen affinity chromatography. |
| **Preparation and Storage** | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |

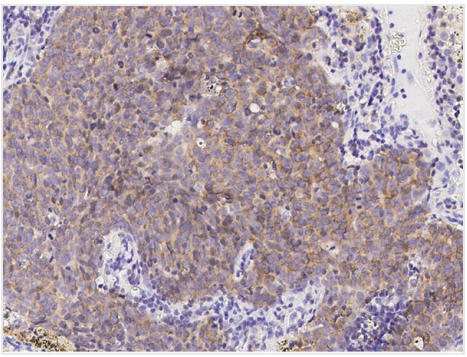
## IMAGES



**IF (Immunofluorescence)**
Immunofluorescence staining of TTK in HeLa cells. Cells were fixed with 4% PFA, permeabilzed with 0.3% Triton X-100 in PBS,blocked with 10% serum, and incubated with rabbit anti-human TTK polyclonal antibody (1:1000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor488-conjugated Goat Anti-rabbit IgG secondary antibody (green) and counterstained with DAPI (blue). Positive staining was localized to cytoplasm.



**IHC (Immunohiostchemistry)**
Immunochemical staining of human RPS27 in human brain with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).



**IHC (Immunohistochemistry)**
Immunochemical staining of human RPS27 in human lung cancer with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections).

## ADDITIONAL INFORMATION

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| **Related Product Information for anti-TTK antibody** | TTK protein kinase (TTK), also known as Monopolar spindle 1 (MPS1), is a key regulator of the spindle assembly checkpoint (SAC), which functions to maintain genomic integrity. TTK has emerged as a promising therapeutic target in human cancers, including triple-negative breast cancer (TNBC). TTK (Mps1) is a key regulator of chromosome segregation and is the subject of novel targeted therapy approaches by small-molecule inhibitors. The dual-specificity protein kinase TTK (TTK) is the most up-regulated and differentially expressed kinase encoding genes in GSCs. Functionally, TTK was essential for in vitro clonogenicity and in vivo tumor propagation in GSCs. Clinically, TTK expression was highly enriched in GBM, moreover, was inversely correlated with a poor prognosis in GBM patients. Mechanistically, mitochondrial fission regulator 2 (MTFR2) was identified as one of the most correlated genes to TTK and transcriptionally regulated TTK expression via activation of TTK promoter. Collectively, MTFR2-dependent regulation of TTK plays a key role in maintaining GSCs in GBM and is a potential novel druggable target for glioblastoma (GBM). |

## NCBI AND UNIPROT INFORMATION

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|---|---|
| **NCBI GI #** | 4506711 |
| **NCBI GeneID** | 6232 |
| **NCBI Accession #** | NP_001021.1 |
| **NCBI GenBank Nucleotide #** | NM_001030.4 |
| **UniProt Accession #** | P42677; Q5T4L6 |
| **Molecular Weight** | 9,461 Da |

| | |
|---|---|
| **NCBI Official Full Name** | 40S ribosomal protein S27 |
| **NCBI Official Synonym Full Names** | ribosomal protein S27 |
| **NCBI Official Symbol** | RPS27 |
| **NCBI Official Synonym Symbols** | S27; MPS1; MPS-1 |
| **NCBI Protein Information** | 40S ribosomal protein S27 |
| **UniProt Protein Name** | 40S ribosomal protein S27 |
| **UniProt Gene Name** | **RPS27** |
| **UniProt Synonym Gene Names** | MPS1; MPS-1 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/polyclonal/mps1-ttk-antibody-immunofluorescence-immunocytochemistry-immunohistochemistry-elisa/254432