

Datasheet for ABIN7601844
anti-Mps1 antibody (AA 487-821)



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Overview

Quantity:	100 µg
Target:	Mps1 (TTK)
Binding Specificity:	AA 487-821
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Mps1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-TTK/Mps1/TTK Antibody Picoband®
Immunogen:	E.coli-derived human TTK/Mps1/TTK recombinant protein (Position: Q487-S821).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-TTK/Mps1/TTK Antibody Picoband® (ABIN7601844). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Mps1 (TTK)
Alternative Name:	TTK (TTK Products)
Background:	Synonyms: Dual specificity protein kinase TTK, Phosphotyrosine picked threonine-protein kinase, PYT, TTK, MPS1, MPS1L1 Tissue Specificity: Present in rapidly proliferating cell lines. Background: Dual specificity protein kinase TTK is a protein that in humans is encoded by the XRCC2 gene. This gene is mapped to 6q14.1. This gene encodes a dual specificity protein kinase with the ability to phosphorylate tyrosine, serine and threonine. Associated with cell proliferation, this protein is essential for chromosome alignment at the centromere during mitosis and is required for centrosome duplication. It has been found to be a critical mitotic checkpoint protein for accurate segregation of chromosomes during mitosis. Tumorigenesis may occur when this protein fails to degrade and produces excess centrosomes resulting in aberrant mitotic spindles. Alternative splicing results in multiple transcript variants.
Molecular Weight:	97 kDa
Gene ID:	7272
UniProt:	P33981

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Rat Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Lindberg, R. A., Fischer, W. H., Hunter, T. Characterization of a human protein threonine kinase isolated by screening an expression library with antibodies to phosphotyrosine. <i>Oncogene</i> 8: 351-359, 1993. 2. Mills, G. B., Schmandt, R., McGill, M., Amendola, A., Hill, M., Jacobs, K., May, C., Rodricks, A.-M., Campbell, S., Hogg, D. Expression of TTK, a novel human protein kinase, is associated with cell proliferation. <i>J. Biol. Chem.</i> 267: 16000-16006, 1992. 3. Poss, K. D., Wilson, L. G., Keating, M. T. Heart regeneration in zebrafish. <i>Science</i> 298: 2188-2190, 2002.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.