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Anti-MPS1 / TTK Antibody (clone 3G7)

Mouse Anti Human Monoclonal Antibody
Catalog # ALS17925

Product Information

Application	WB, IHC-P, E
Primary Accession	P33981
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Names	3G7
Calculated MW	97072
Concentration (mg/ml)	0.47 mg/ml

Additional Information

Gene ID	7272
Alias Symbol	TTK
Other Names	TTK, Cancer/testis antigen 96, ESK, Esk1, MPS1, MPS1L1, Protein kinase esk, PYT, TTK protein kinase, CT96, Monopolar spindle 1-like 1
Target/Specificity	Human MPS1 / TTK
Reconstitution & Storage	Protein A purified
Precautions	Anti-MPS1 / TTK Antibody (clone 3G7) is for research use only and not for use in diagnostic or therapeutic procedures.

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: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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.