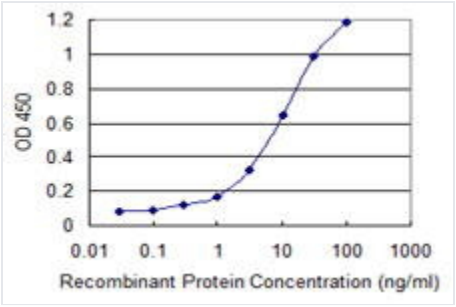
PBK Antibody – Mouse Monoclonal

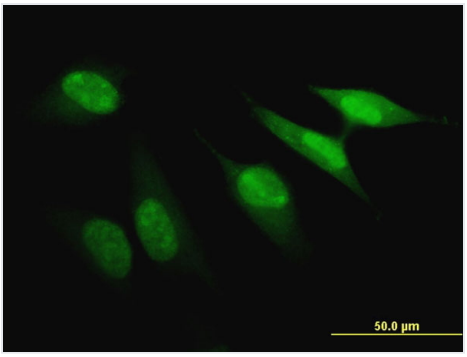
PRODUCT OVERVIEW

Product Name	PBK, Monoclonal Antibody
Full Product Name	PBK (PDZ Binding Kinase, FLJ14385, Nori-3, SPK, TOPK) (PE)
Product Gene Name	anti-PBK antibody
Product Synonym Names	PDZ Binding Kinase; FLJ14385; Nori-3; SPK; TOPK
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	2D2
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified
Specificity	Recognizes PBK.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of proc centrifuge the original vial prior to removing the cap.
Molecular Weight	36,085 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (27667138..27695349, complement). Location: 8p21.2
OMIM	611210
3D Structure	ModBase 3D Structure for Q96KB5
Immunogen	PBK (NP_060962.2, 122aa-229aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	SLNDLIEERYKASQDPFPAAIILKVALNMARGLKYLHQEKKLLHGDIKSSNVVIKGDFETIKICDVGVSLPLDENMTVTDPEACYIGTEPWKPKEAVEENGVIT
Conjugate	PE
Product Categories/Family for anti-PBK antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-PBK antibody	Immunofluorescence (IF)
Application Notes for anti-PBK antibody	Applications are based on unconjugated antibody.

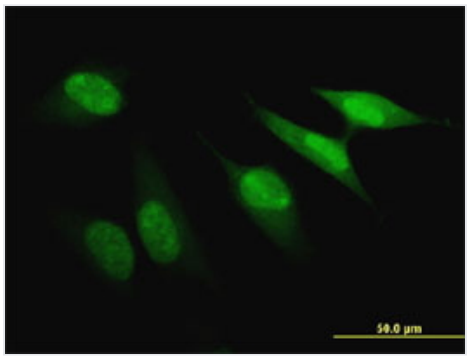
Related Product Information for anti-PBK antibody	This genes encodes a serine/threonine kinase related to the dual specific mitogen-activated protein kinase kinase (MAPKK) family. Evidence suggests mitotic phosphorylation is required for its catalytic activity. This mitotic kinase may be involved in the activation of lymphoid cells and support testicular functions, with a suggested role in the process of spermatogenesis. [provided by RefSeq]
Other Notes	Small volumes of anti-PBK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessar briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and add dry ice fee may apply.
Searchable Terms for PBK purchase	MBS6184635 is an antibody targeting PBK. Also known as PBK (PDZ Binding Kinase, FLJ14385, Nori-3, SPK, TOPK) (PE). Host: Mouse.



Testing Data of anti-PBK antibody
Detection limit for recombinant GST tagged PBK is 0.1 ng/ml as a capture antibody.



Immunofluorescence (IF) of anti-PBK antibody
Immunofluorescence of monoclonal antibody to PBK on HeLa cell. [antibody concentration 10 ug/ml]



Immunofluorescence (IF) of anti-PBK antibody
Immunofluorescence of monoclonal antibody to PBK on HeLa cell. [antibody concentration 10 ug/ml]

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PBK. It may not necessarily be applicable to this product.

NCBI GI #	18490991
NCBI GeneID	55872
NCBI Accession #	NP_060962.2
UniProt Primary Accession #	Q96KB5
UniProt Secondary Accession #	Q9NPD9; Q9NYL7; Q9NZK6; D3DST2
UniProt Related Accession #	Q96KB5
GenBank Nucleotide #	NM_018492.2
NCBI Official Full Name	lymphokine-activated killer T-cell-originated protein kinase
NCBI Official Synonym Full Names	PDZ binding kinase

NCBI Official Symbol	PBK
NCBI Official Synonym Symbols	SPK; CT84; TOPK; Nori-3
UniProt Protein Name	Lymphokine-activated killer T-cell-originated protein kinase
UniProt Synonym Protein Names	Cancer/testis antigen 84; CT84; MAPKK-like protein kinase; Nori-3; PDZ-binding kinase; Spermatogenesis-related protein kinase; SPK; T-LAK cell-originated protein kinase
Protein Family	Lymphokine-activated killer T-cell-originated protein kinase
UniProt Gene Name	PBK
UniProt Synonym Gene Names	TOPK; CT84; SPK
UniProt Entry Name	TOPK_HUMAN
NCBI Protein Information	lymphokine-activated killer T-cell-originated protein kinase; PDZ-binding kinase; cancer/testis antigen 84; MAPKK-like protein kinase; serine/threonine protein kinase; T-LAK cell-originated protein kinase; spermatogenesis-related protein kinase
UniProt Comments for PBK	PBK: Phosphorylates MAP kinase p38. Seems to be active only in mitosis. May also play a role in the activation of lymphoid cells. When phosphorylated, forms a complex with TP53, leading to TP53 destabilization and attenuation of G2/M checkpoint during doxorubicin-induced DNA damage. Interacts with DLG1 and TP53. Expressed in the testis and placenta. In the testis, restrictedly expressed in outer cell layer of seminiferous tubules. Activated by phosphorylation. Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. MAP kinase kinase subfamily. Protein type: Protein kinase, Other; Cancer Testis Antigen (CTA); Protein kinase, Ser/Thr (non-receptor); EC 2.7.12.2; Kinase, protein; Other group; TOPK family Chromosomal Location of Human Ortholog: 8p21.2 Molecular Function: protein serine/threonine kinase activity; protein binding; ATP binding Biological Process: mitosis; negative regulation of protein amino acid phosphorylation; negative regulation of inflammatory response; negative regulation of stress-activated MAPK cascade; protein amino acid phosphorylation; negative regulation of proteasomal ubiquitin-dependent protein catabolic process
Research Articles on PBK	**1.** that the serine-threonine kinase PBK/TOPK is frequently overexpressed in high-grade lymphomas and its expression is positively correlated to that of c-Myc and E2F1
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