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JTB Rabbit pAb

Catalog # AP99946

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	O76095
Other Accession	O76095
Reactivity	Rat
Predicted	Pig, Human, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	16358
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human JTB
Epitope Specificity	51-146/146
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the JTB family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Required for normal cytokinesis during mitosis. Plays a role in the regulation of cell proliferation. May be a component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. Increases AURKB activity. Inhibits apoptosis induced by TGFB1 (By similarity). Overexpression induces swelling of mitochondria and reduces mitochondrial membrane potential.

Additional Information

Gene ID	10899
Other Names	HJTB; HSPC222; PAR; hJT; Gm622; JTB_HUMAN; JTB; Jumping translocation breakpoint protein; Prostate androgen-regulated protein (PAR protein); JTB_MOUSE; JTB_RAT; jumping translocation breakpoint; prostate androgen-regulated gene
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	JTB
Function	Required for normal cytokinesis during mitosis. Plays a role in the regulation of cell proliferation. May be a component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. Increases AURKB activity. Inhibits apoptosis induced by TGFB1 (By similarity). Overexpression induces swelling of mitochondria and reduces mitochondrial membrane potential (By similarity).
Cellular Location	Membrane; Single-pass type I membrane protein. Mitochondrion. Cytoplasm Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Cytoplasm, cytoskeleton, spindle. Note=Detected at the centrosome and along spindle fibers during prophase and metaphase. Detected at the midbody during telophase
Tissue Location	Ubiquitous. Expressed in all normal human tissues studied but overexpressed or underexpressed in many of their malignant counterparts.

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