10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

IBTK Rabbit pAb

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Catalog # AP56031

Product Information

Application	WB
Primary Accession	Q9P2D0
Reactivity	Human
Predicted	Mouse, Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	150528
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human IBTK
Epitope Specificity	701-800/1353
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Membrane; Peripheral membrane protein. Note=Translocates to the plasma membrane upon IgM stimulation.Isoform 2: Nucleus.
SIMILARITY	Contains 3 ANK repeats.Contains 2 BTB (POZ) domains.Contains 3 RCC1 repeats.
SUBUNIT	Interacts with the PH domain of BTK. Isoform 2 does not interact with BTK.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	IBTK is a encoded by this gene binds to Bruton's tyrosine kinase (BTK) and downregulates BTK's kinase activity. In addition, the encoded protein disrupts BTK-mediated calcium mobilization and negatively regulates the activation of nuclear factor-kappa-B-driven transcription.

Additional Information

Gene ID	25998
Other Names	Inhibitor of Bruton tyrosine kinase, IBtk, IBTK, BTKI, KIAA1417
Target/Specificity	Expressed in DeFew, HEK293T, HeLa and in Jurkat, MC3 and NB4 lymphoid cells (at protein level). Isoform 1 is the predominant isoform expressed in all examined tissues and cell lines. Highly expressed in hemopoietic tissues (fetal liver, spleen, lymph node, thymus, peripheral blood leukocytes and bone marrow). Weakly or not expressed in other tissues.
Dilution	WB=1:500-2000
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	IBTK
Synonyms	BTKI, KIAA1417
Function	Acts as an inhibitor of BTK tyrosine kinase activity, thereby playing a role in B-cell development. Down-regulates BTK kinase activity, leading to interference with BTK-mediated calcium mobilization and NF-kappa-B-driven transcription.
Cellular Location	Cytoplasm. Membrane; Peripheral membrane protein. Note=Translocates to the plasma membrane upon IgM stimulation
Tissue Location	Expressed in DeFew, HEK293T, HeLa and in Jurkat, MC3 and NB4 lymphoid cells (at protein level). Isoform 1 is the predominant isoform expressed in all examined tissues and cell lines Highly expressed in hemopoietic tissues (fetal liver, spleen, lymph node, thymus, peripheral blood leukocytes and bone marrow). Weakly or not expressed in other tissues.

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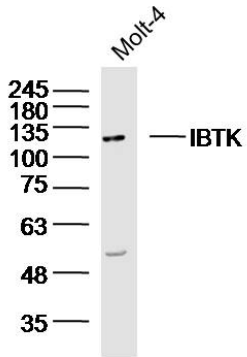
Images



Sample: Molt-4 Cell (Human) Lysate at 40 ug
Primary: Anti-IBTK(AP56031)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 150kD
Observed band size: 133kD