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IBTK Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10731c

Specification

IBTK Antibody (Center) - Product Information

Application	**FC, IHC-P, WB,E**
Primary Accession	Q9P2D0
Other Accession	NP_056340.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**150528**
Antigen Region	**586-613**

IBTK Antibody (Center) - Additional Information

Gene ID 25998

Other Names
Inhibitor of Bruton tyrosine kinase, IBtk, IBTK, BTKI, KIAA1417

Target/Specificity
This IBTK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 586-613 amino acids from the Central region of human IBTK.

Dilution
FC~~1:10~50
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
IBTK Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

IBTK Antibody (Center) - 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

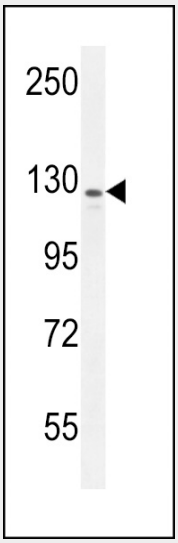
Tissue Location
Expressed in DeFew, HEK293T, HeLa and in Jurkat, MC3 and NB4 lymphoid cells (at protein level). Isoform 1 is the predominant isoform expressed in all examined tissues and cell lines Highly expressed in hemopoietic tissues (fetal liver, spleen, lymph node, thymus, peripheral blood leukocytes and bone marrow). Weakly or not expressed in other tissues.

IBTK Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

IBTK Antibody (Center) - Images



IBTK Antibody (Center) (Cat. #AP10731c) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the IBTK antibody detected the IBTK protein (arrow).

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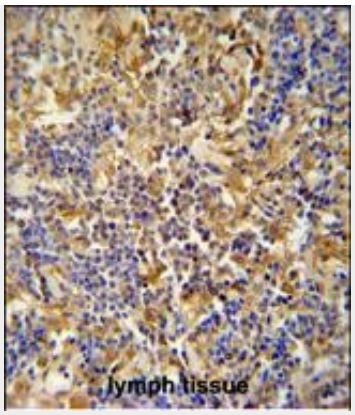
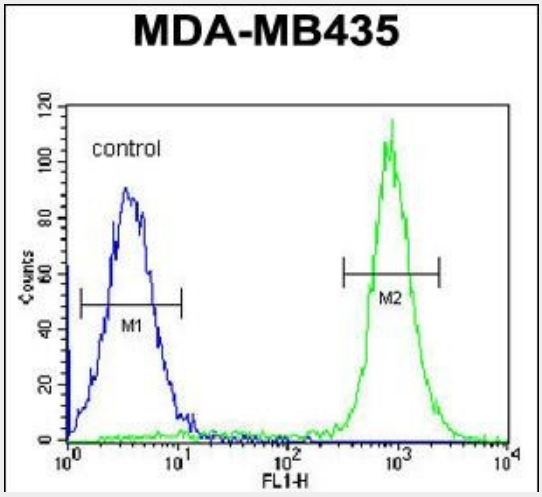


IBTK antibody (Center) (Cat. #AP10731c) immunohistochemistry analysis in formalin fixed and paraffin embedded human lymph tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the IBTK antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



IBTK Antibody (Center) (Cat. #AP10731c) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

IBTK Antibody (Center) - Background

The protein 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.

IBTK Antibody (Center) - References

Fiume, G., et al. Comput Biol Chem 33(6):434-439(2009)
Spatuzza, C., et al. Nucleic Acids Res. 36(13):4402-4416(2008)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
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Mungall, A.J., et al. Nature 425(6960):805-811(2003)