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ITPKB Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant ITPKB.
Catalog # AT2574a

Specification

ITPKB Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	P27987
Other Accession	NM_002221
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b Kappa**
Calculated MW	**102376**

ITPKB Antibody (monoclonal) (M01) - Additional Information

Gene ID 3707

Other Names
Inositol-trisphosphate 3-kinase B, Inositol 1, 5-trisphosphate 3-kinase B, IP3 3-kinase B, IP3K B, InsP 3-kinase B, ITPKB

Target/Specificity
ITPKB (NP_002212, 545 a.a. ~ 643 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
ITPKB Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

ITPKB Antibody (monoclonal) (M01) - Protocols

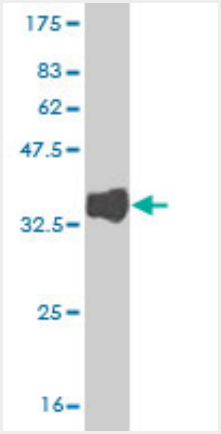
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

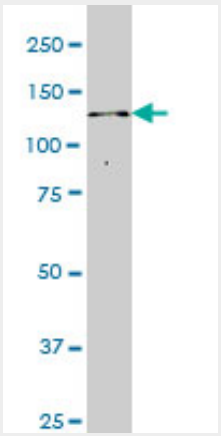
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- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

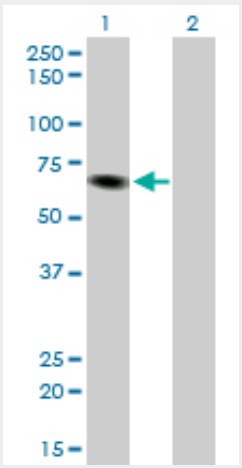
ITPKB Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.52 KDa) .



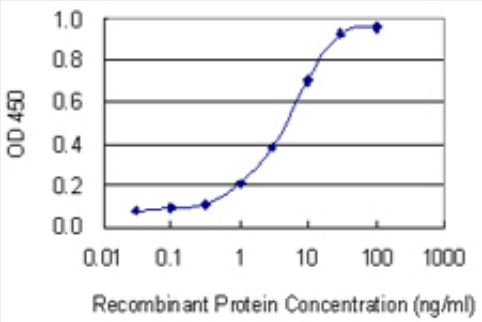
ITPKB monoclonal antibody (M01), clone 2F8 Western Blot analysis of ITPKB expression in Jurkat ((Cat # AT2574a)



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Western Blot analysis of ITPKB expression in transfected 293T cell line by ITPKB monoclonal antibody (M01), clone 2F8.

Lane 1: ITPKB transfected lysate(67.4 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged ITPKB is 0.1 ng/ml as a capture antibody.

ITPKB Antibody (monoclonal) (M01) - Background

The protein encoded by this protein regulates inositol phosphate metabolism by phosphorylation of second messenger inositol 1,4,5-trisphosphate to Ins(1,3,4,5)P4. The activity of this encoded protein is responsible for regulating the levels of a large number of inositol polyphosphates that are important in cellular signaling. Both calcium/calmodulin and protein phosphorylation mechanisms control its activity.

ITPKB Antibody (monoclonal) (M01) - References

1.Human inositol-1,4,5-trisphosphate 3-kinase isoform B (IP3KB) is a nucleocytoplasmic shuttling protein specifically enriched at cortical actin filaments and at invaginations of the nuclear envelope.Nalaskowski MM, Fliegert R, Ernst O, Brehm MA, Fanick W, Windhorst S, Lin H, Giehler S, Hein J, Lin YN, Mayr GW.J Biol Chem. 2010 Dec 9. [Epub ahead of print]