

Mouse Monoclonal Antibody to BTK

Order Information

Catalog#	20132	
Size/Concentration	100µl	50µl
Price(¥)	2180	1280

Description

Brutons tyrosine kinase (BTK) is a member of the BTK/Tec family of cytoplasmic tyrosine kinases. All members of the family contain SH3 and SH2 domains and, with the exception of Txk and Dsrc28C, also contain a pleckstrin homology (PH) and a Tec homology (TH) domain in their amino termini. BTK plays an important role in B cell development. Activation of B cells by various ligands is accompanied by BTK membrane translocation mediated by its PH domain binding to phosphatidylinositol-3,4,5-trisphosphate. The membrane located BTK is active and associated with transient phosphorylation of two tyrosine residues, Tyr551 and Tyr223. Tyr551 in the activation loop is transphosphorylated by the Src family tyrosine kinase, leading to autophosphorylation at Tyr223 within the SH3 domain, which is necessary for full activation.

Specification

Aliases :	BTK
Entrez GeneID :	695
Swissprot :	Q06187
clone :	7F12H4
WB Predicted band size :	77kDa
Host/Isotype :	Mouse IgG1
Storage :	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Species Reactivity :	Human, Monkey
Immunogen :	Purified recombinant fragment of BTK expressed in E. Coli.
Formulation :	Ascitic fluid containing 0.03% sodium azide.

Application

WB	1/500 - 1/2000
IHC	1/200 - 1/1000
ICC	1/200 - 1/1000
ELISA	1/10000

References

1. Yamada, N., et al. Biochem. Biophys. Res. Commun. 192: 231-240.
2. Thomas, J.D., et al. 1993. Science. 261: 355-358.
3. Tamagnone, L., et al. Oncogene 9: 3683-3688.

Call 1-510-860-4615
+86-19375157864
Email Info@ProMab.com
Web www.ProMab.com
www.ProMab.cn

Protocol

WB - www.promab.com/protocol/wb.html
IHC - www.promab.com/protocol/ihc.html
ICC - www.promab.com/protocol/icc.html
HCM - www.promab.com/protocol/hcm.html
Antigen Sequence is available upon request.

Products and Services

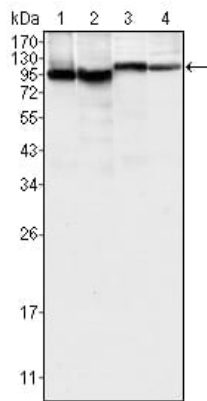
- Mouse Monoclonal Antibody
- Rat Monoclonal Antibody
- Human Antibody
- Hybridoma Sequencing
- Polyclonal Antibody

For Research Only

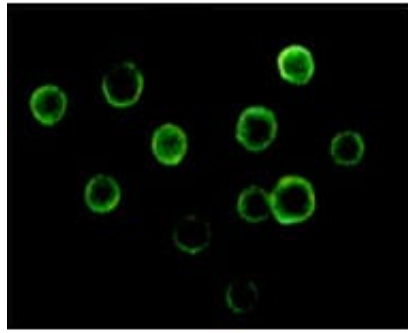
Application Key: WB - Western Blot | IHC - Immunohistochemistry | ICC - Immunocytochemistry | FCM - Flow Cytometry | ELISA - Enzyme-linked Immunosorbent Assay | IP - Immunoprecipitation

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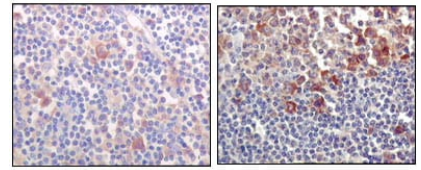
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Western blot analysis using BTK mouse mAb against K562 (1), MCF-7 (2), Jurkat (3) and HEK293 (4) cell lysate.



Immunofluorescence analysis of Jurkat cells using BTK mouse mAb.



Immunohistochemical analysis of paraffin-embedded human lymph-node tissues (left) and human lymph follicle tissues (right), showing cytoplasmic and membrane localization using BTK mouse mAb with DAB staining.

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