bsm-52136R

[Primary Antibody]



phospho-BTK (Tyr223) Recombinant Rabbit mAb ANTIB

www.bioss.com.cn sales@bioss.com.cn techsupport@bioss.com.cn 400-901-9800

DATASHEET -

Host: Rabbit Isotype: IgG
Clonality: Recombinant CloneNo.: 7B2
GeneID: 695 SWISS: Q06187

Target: BTK (Tyr223)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human

Btk around the phosphorylation site of Tyr223: AL(p-Y)DY.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50%

Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated

freeze/thaw cycles.

optimal BTK activity.

Background: Brutons tyrosine kinase (BTK) is a member of the BTK/Tec family of

cytoplasmic tyrosine kinases. Like other BTK family members, it contains a pleckstrin homology (PH) domain, Src homology SH3 and SH2 domains. 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. The activation of BTK is negatively regulated by PKC beta through phosphorylation of BTK at Ser180, which results in reduced membrane recruitment, transphosphorylation and subsequent activation. The PKC/BTK inhibitory signal is likely to be a key determinant of the B cell receptor signaling threshold to maintain

Applications: WB (1:1000-2000)

Reactivity: Human (predicted: Mouse)

Predicted 76 kDa

Subcellular Cell membrane ,Cytoplasm **Location:** ,Nucleus

— SELECTED CITATIONS —

• [IF=4.087] Tong Chen. et al. The effect of geniposide on chronic unpredictable mild stress - induced depressive mice through BTK/TLR4/NF - κB and BDNF/TrkB signaling pathways. Phytother Res. 2021 Feb;35(2):932-945 WB; Mouse. 33164233