bs-2752R

[Primary Antibody]

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ICC/IF (1:50-1:200)

Cow, Dog, Horse)

Subcellular Cell membrane ,Cytoplasm

(predicted: Rat, Rabbit, Pig,

Applications: Flow-Cyt (1µg/Test)

Reactivity: Human, Mouse

Predicted 76 kDa

Location: Nucleus

MW.:

ATK/BTK Rabbit pAb

DATASHEET -

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

GenelD: 695 **SWISS:** Q06187

Target: ATK/BTK

Immunogen: KLH conjugated synthetic peptide derived from human BTK:

581-659/659.

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

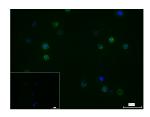
freeze/thaw cycles.

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

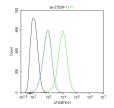
cytoplasmic tyrosine kinases. Like other BTK family members, it contains a pleckstrin homology (PH) domain, Src homology SH3 and SH2 domains. BTK plays an important role in B cell development. Activation of B cells by various ligands is accompanied by BTK membrane translocation mediated by its PH domain 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

optimal BTK activity.

VALIDATION IMAGES



4% Paraformaldehyde-fixed Raji (H) cell; Antibody incubation with (ATK/BTK) polyclonal Antibody, unconjugated (bs-2752R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-40295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



Blank control (black line): Raw264.7. Primary Antibody (green line): Rabbit Anti-ATK/BTK antibody (bs-2752R) Dilution:1ug/Test; Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control (orange line): Normal Rabbit IgG Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

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