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12-4348: Phospho-Btk (Tyr551) (Clone: G12) rabbit mAb Biotin conjugate

Clonality :	Monoclonal
Clone Name :	BtkY551-G12
Application :	FACS,ELISA
Reactivity :	Human
Conjugate :	Biotin
Format :	Conjugated
Alternative Name :	Bruton tyrosine kinase, Tyrosine-protein kinase BTK, Agammaglobulinemia tyrosine kinase, ATK, AGMX1, B-cell progenitor kinase, BPK
Isotype :	Rabbit IgG1k
Immunogen Information :	A synthetic phospho-peptide corresponding to residues surrounding human Btk (Y551)

Description

Btk is a major node in the B-cell receptor signaling pathway, where it regulates B cell maturation, activation, survival, differentiation, and proliferation. Btk is activated by Src family kinases, including Lyn, which phosphorylates Btk at Tyr551. Upon phosphorylation at this site, Btk is recruited to the plasma membrane where autophosphorylation at Tyr223 occurs. The Btk signaling pathway is a major target of small molecule inhibitors for B-cell lymphoma, autoimmune diseases, and non-Hodgkin's lymphomas. These inhibitors either form a covalent bond at Cys481 in the ATP-binding site or serve as reversible inhibitors that bind the SH3 pocket and stabilize inactive Btk.

Product Info

Amount :	10 Tests / 100 Tests
Content :	1X PBS, 0.09% NaN3, 0.2% BSA
Storage condition :	Store at 2-8°C. Avoid repeated freeze and thaw cycles.

Application Note

For flow cytometric staining, the suggested use of this reagent is 5 ÃÂµL per million cells or 5 ÃÂµL per 100 ÃÂµL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.

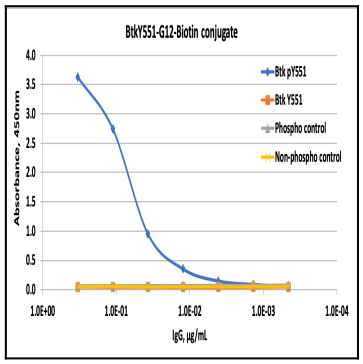

Fig-1: Peptide ELISA using BtkY551-G12-Biotin conjugate titered starting from 0.3 µg/mL shows binding to only Btk pY551 phospho peptide and no cross-reactivity to Btk Y551 non-phospho peptide or to control peptides.

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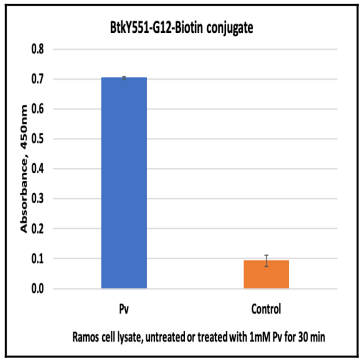

Fig 2 : Direct ELISA using Ramos cellular lysate coated directly to the plate surface after lysis following no treatment or treatment with 1mM pervanadate for 30 min. ELISA wells were tested in duplicate using 0.12 mg/mL total protein coated lysate and 1 µg/mL BtkY551-G12-Biotin conjugate IgG.

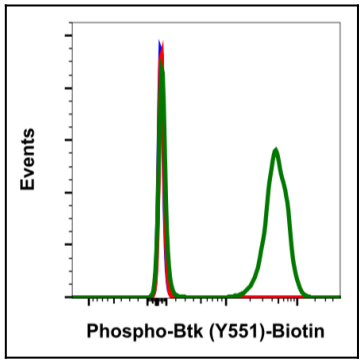

Fig-3: Flow cytometric analysis of Ramos cells secondary antibody only negative control (blue) or untreated (red) or treated with pervanadate (green) using Phospho-Btk (Tyr551) antibody BtkY551-G12-Biotin conjugate at 0.1 µg/mL.