9853 Pacific Heights Blvd.
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12-4320: Phospho-Jak1 (Tyr1022/1023) (Clone: F11) rabbit mAb

Clonality :	Monoclonal
Clone Name :	Jak1Y10221023-F11
Application :	FACS
Reactivity :	Human, Mouse
Conjugate :	Unconjugated
Format :	Purified
Alternative Name :	Tyrosine-protein kinase JAK1, Janus kinase 1
Isotype :	Rabbit IgG1k
Immunogen Information :	A synthetic phospho-peptide corresponding to residues surrounding Tyr1022/1023 of human phospho-Jak1

Description

Jak1 plays an essential role in the IFN- alpha and IFN-g response pathways and is tyrosine-phosphorylated upon cellular exposure to these signals. Jak1 oral inhibitors have been used to benefit patients with advanced myelofibrosis, where Jak1 was initially shown to be constitutively active in the peripheral blood cells of these patients. Targeted, small-molecule Jak inhibitors have also been used for treatment of rheumatoid arthritis. In cases of advanced melanoma, acquired resistance to PD-1 blockade drugs is associated with loss-of-functions of mutations in Jak1/2 genes. These mutations block interferon gamma signaling and prevent programmed death ligand 1 (PD-L1) expression in tumor cells.

Product Info

Amount :	20 µl / 200 µl
Content :	1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA
Storage condition :	Store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

1Ã‚µg/mL - 0.001Ã‚µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.(0.5mg/ml, more than 200 western blots)

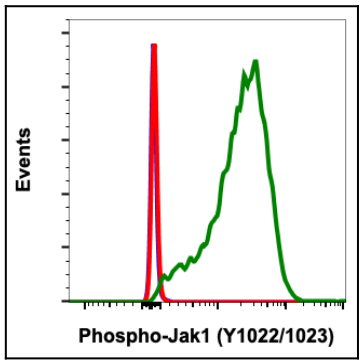

Fig-1: Flow cytometric analysis of Jurkat cells secondary antibody only negative control (blue) or untreated (red) or treated with IFNa + IL-4 + pervanadate (green) using Phospho-Jak1 (Tyr1022/1023) antibody Jak1Y10221023-F11 at 0.01µg/mL.

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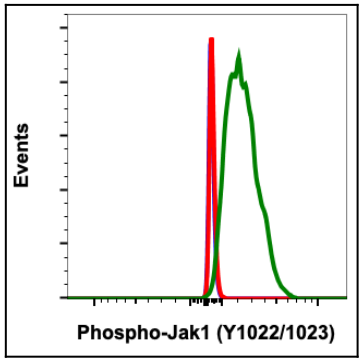
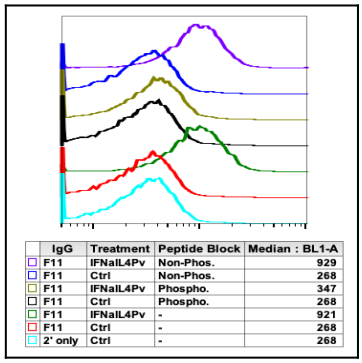


Fig 2 : Flow cytometric analysis of C2C12 cells secondary antibody only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using Phospho-Jak1 (Tyr1022/1023) antibody Jak1Y10221023-F11 at 0.01µg/mL.



IgG	Treatment	Peptide Block	Median : BL1-A
F11	IFNalL4Pv	Non-Phos.	929
F11	Ctrl	Non-Phos.	268
F11	IFNalL4Pv	Phospho.	347
F11	Ctrl	Phospho.	268
F11	IFNalL4Pv	-	921
F11	Ctrl	-	268
2' only	Ctrl	-	268

Fig-3: Peptide blocking flow cytometric analysis of Jurkat cells secondary antibody only negative control (light blue) or untreated (red) or treated with IFNa + IL-4 + pervandadate (green) or untreated and blocked with phospho-peptide (black) or treated and blocked with phospho peptide (gold) or untreated and blocked with non-phospho peptide (dark blue) or treated and blocked with non-phospho peptide (purple) using Phospho-Jak1 (Tyr1022/1023) antibody Jak1Y10221023-F11 at 0.001µg/mL.