Phospho-Jak1 (Tyr1034/1035) (F11) rabbit mAb PE Conjugate

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For Research Use Only. Not For Use In Diagnostic Procedures.

Applications	Detection	Clonality	Isotype
Flow Cytometry	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

Format: PE

Cross Reactivity: Predicted to work with mouse, rat and other homologues.

Formulation: 1X PBS, 0.09% NaN3, 0.2% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse

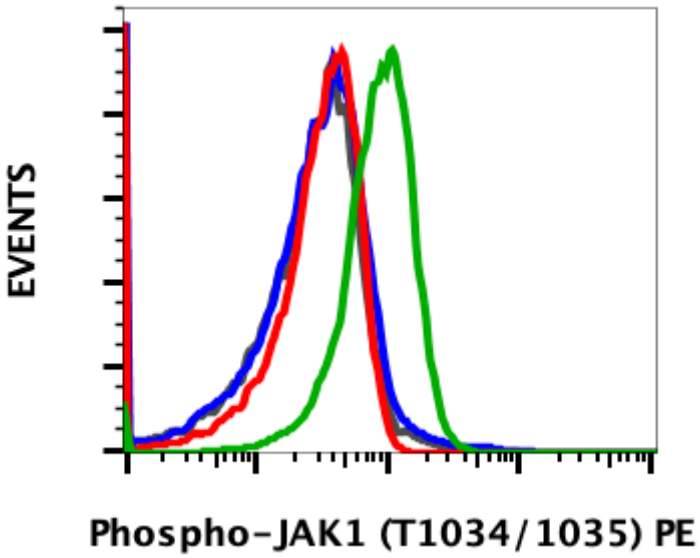
Recommended Usage: For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells or 5 µL per 100 µL of staining volume. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Tyr1034/1035 of human phospho-Jak1

Description: Jak1 plays an essential role in the IFN-α and IFN-γ 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.

References:

Muller M, Briscoe J, Laxton C et al. (1993) Nature. 366: 129-135.
Verstovesk S, Kantarjian H, Mesa RA et al. New England Journal of Medicine. 363: 1117-1127.
Shin DS, Zaretsky JM, Escuin-Ordinas H et al. (2017) Cancer Discovery. 7:188-201.
Boyle DL, Soma K, Hodge J, et al. (2014) Annals of the Rheumatic Diseases. 74: 1311-1316.



Flow cytometric analysis of Jurkat cells untreated (red) or treated with IFNa+IL-4 and pervanadate (green) using Phospho-Jak1 (Tyr1034/Tyr1035) (F11) Rabbit mAb (PE Conjugate) Jak1-F11 #2412, or concentration-matched Rabbit (G9) mAb IgG Isotype Control (PE Conjugate) #2142 for cells untreated (black) or treated with IFNa+IL4 + pervanade (blue).