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12-4012: Phospho-Stat3 (Tyr705) (Clone: B12) rabbit mAb APC conjugate

Clonality :	Monoclonal
Clone Name :	Stat3Y705-B12
Application :	FACS
Reactivity :	Human, Mouse
Conjugate :	APC
Format :	Conjugated
Alternative Name :	Signal transducer and activator of transcription 3, STAT3, Acute-phase response factor, APRF
Isotype :	Rabbit IgG1k
Immunogen Information :	A synthetic phospho-peptide corresponding to residues surrounding Tyr705 of human phospho Stat3

Description

Considered an oncogene, Stat3 is constitutively active in 70% of solid and hematological tumors, including leukemia, lymphoma, and multiple myeloma. The IL-6-Jak-Stat3 pathway can mediate cancer inflammation through both mutation of key regulatory genes and environmental stressors. Attempts at directly targeting Stat3 in cancer therapy have focused on the development of phosphopeptides and mimics that interact with the phospho-tyrosine-SH2 domain of Stat3 in an effort to destabilize active dimers and prevent DNA binding. Stat3 is primarily phosphorylated at Tyr705 upon activation of the Jak-Stat3 pathway. Secondary phosphorylation at Tyr727 at the C-terminus is thought to occur after Tyr705 phosphorylation. However, studies in melanoma have shown constitutive phosphorylation at Tyr727 that promotes survival of these cancerous cells.

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.

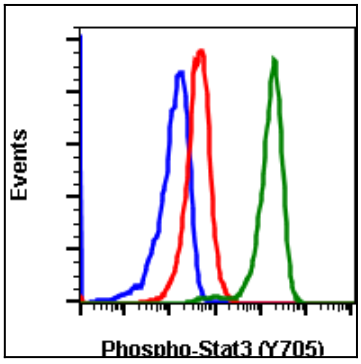

Fig-1: Flow cytometric analysis of Jurkat cells secondary antibody only negative control (blue) or untreated (red) or treated with IFNa IL4 and pervanadate (green) using Phospho-Stat3 (Tyr705) antibody Stat3Y705 B12-APC.

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