

Product Datasheet

Phospho-Stat1 (Tyr701) rabbit mAb PE conjugate Antibody (orb1946187)

Catalog Number	orb1946187
Category	Antibodies
Description	<p>Stat1 mediates the cellular response to IFNα, IFNβ, and IFNγ for the regulation of cell growth and the defense against viral and immune challenges. The Jak-Stat pathway plays a central role in the IFNγ response, where Stat1 phosphorylation on Tyr701 causes homodimerization through its SH2 domain, translocation to the nucleus, and binding to gamma-activated sequence (GAS) elements. Early in the activation sequence, Stat1 is also phosphorylated at Ser727 through a mechanism involving PI3 kinase and Akt. Stat1 has been found to correlate with increased resistance to chemotherapeutic drugs. However, Stat1 activation of the immune system helps suppress tumor growth, and multiple melanomas and squamous-cell carcinomas have been known to downregulate Stat1 expression to evade immune surveillance.</p>
Clonality	Monoclonal
Species/Host	Rabbit
Isotype	Rabbit IgG1k
Conjugation	PE
Reactivity	Human, Mouse
Form/Appearance	Liquid
Buffer/Preservatives	1X PBS, 0.09% NaN ₃ , 0.2% rAlbumin
Purification	Protein A+G

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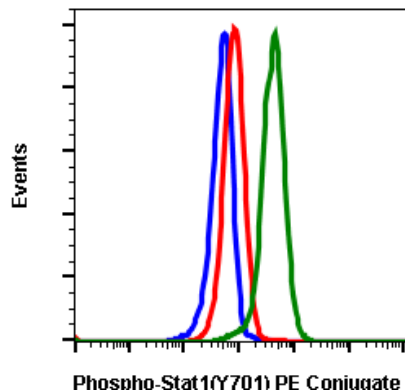
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Immunogen	A synthetic phospho-peptide corresponding to residues surrounding Tyr701 of human phospho Stat1
UniProt ID	P42224
Tested applications	FC
Dilution range	For flow cytometric staining, the suggested use of this reagent is 5 μ L per million cells or 5 μ L per 100 μ L of staining volume. It is recommended that the reagent be titrated for optimal performance for each application.
Cross Reactivity	Predicted to work with mouse, rat, and other homologues.
Clone Number	B5G8
Storage	2-8°C
Note	For research use only
Expiration Date	12 months from date of receipt.



Flow cytometric analysis of U937 cells unstained untreated cells as negative control (blue) or stained untreated (red) or treated with IFN α IL-4 and pervanadate (green) using phospho-Stat1 (Tyr701) antibody Stat1Y701-3E6 PE conjugate. Cat. #orb1946187.

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