

Product Datasheet

Phospho-Stat1 (Ser727) rabbit mAb Antibody (orb1946146)

Catalog Number	orb1946146
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	Unconjugated
Reactivity	Human
Form/Appearance	Liquid
Concentration	0.5 mg/mL
Buffer/Preservatives	1X PBS, 0.02% NaN ₃ , 50% Glycerol, 0.1% rAlbumin
Purification	Protein A+G

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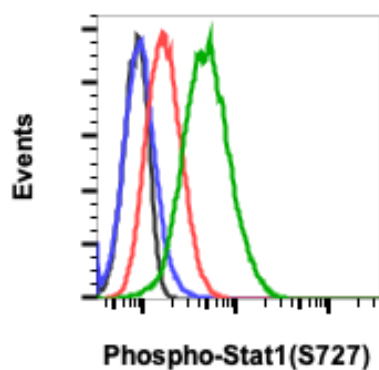
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Immunogen	A synthetic phospho-peptide corresponding to residues surrounding Ser727 of human phospho Stat1
UniProt ID	P42224
Tested applications	FC, WB
Dilution range	1µg/mL - 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.
Cross Reactivity	Predicted to work with mouse, rat, and other homologues.
Clone Number	BE8
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Expiration Date	12 months from date of receipt.



Flow cytometric analysis of U937 cells untreated (red) or treated with IFN α + IL4 + PV (green) using Phospho-Stat1 (Ser727) (C6) Rabbit mAb Stat1S727-C6 at 0.01 ug/mL #orb1946146, or concentration-matched Rabbit (G9) mAb IgG Isotype Control #orb1946241 for cells untreated (black) or treated with IFN α + IL4 + PV (blue).

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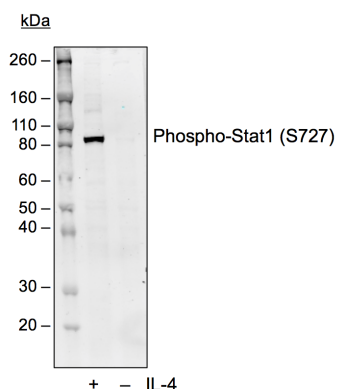
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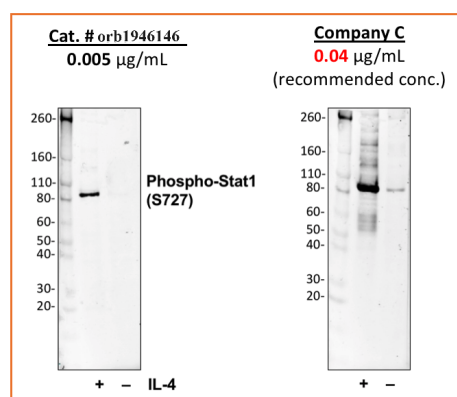
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Western blot analysis of U937 cell extract untreated or treated with IL-4 using 0.1 µg/mL Phospho-Stat1 (Ser727) antibody Stat1S727-C6 Cat. #orb1946146.



Western blot analysis of U937 cell extract untreated or treated with sorbitol using 0.005 µg/mL Phospho-Stat1 (Ser727) antibody Stat1S727-C6 Cat. #orb1946146 or Company C antibody at 0.04 µg/mL (manufacturer's recommended concentration) developed using the same exposure.

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