Datasheet for ABIN968925

anti-STAT4 antibody (pTyr693)

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Overview

Quantity:	50 µg
Target:	STAT4
Binding Specificity:	pTyr693
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This STAT4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Phosphorylated Human Stat4 (pY693)
Clone:	38-p
Isotype:	IgG2b kappa
Cross-Reactivity:	Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	STAT4
Alternative Name:	Stat4 (STAT4 Products)
Background:	The Stat proteins function both as cytoplasmic signal transducers and as activators of transcription. Seven mammalian Stat proteins have been identified: Stat1-4, Stat5a, 5b, and Stat6. Stat4 has been shown to play an important role in development of T helper cells, specifically the Th1 subset. Stat4 is activated by IL-12 and by type 1 interferons. Knockout mice supported the role that Stat4 plays in IL-12 signaling because lymphocytes from Stat 4-/- mice could not differentiate into Th1 cells or produce IFNgamma in response to treatment with IL-12. IFNgamma plays an important role in host defense. A key component in the activation of Stat4 is the phosphorylation on tyrosine and serine residues in response to IL-12 stimulation. IL-12 stimulation leads to the phosphorylation of Stat4 on tyrosine 693 and serine 721. Transcriptional activity of Stat4 has been shown to be significantly reduced when residues Y693 and S721 are mutated.
Molecular Weight:	89 kDa
Pathways:	JAK-STAT Signaling

Application Details

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Handling

Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:	Kisseleva, Bhattacharya, Braunstein, Schindler: "Signaling through the JAK/STAT pathway, recent advances and future challenges." in: **Gene**, Vol. 285, Issue 1-2, pp. 1-24, (2002) (PubMed).
	Visconti, Gadina, Chiariello, Chen, Stancato, Gutkind, OShea: "Importance of the MKK6/p38 pathway for interleukin-12-induced STAT4 serine phosphorylation and transcriptional activity." in: **Blood**, Vol. 96, Issue 5, pp. 1844-52, (2000) (PubMed).

Images

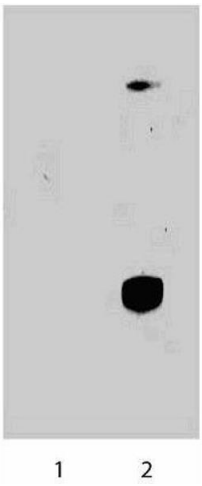

Image 1. K-562 cells were either left untreated (lane 1) or treated (lane 2) with 1.0 mM pervanadate for 20 minutes at 37°C. The image shows a blot that was probed with Stat4 (pY693).