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Datasheet for ABIN968254 anti-STAT4 antibody (AA 136-258)

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3 Publications



Overview

Quantity:	50 µg
Target:	STAT4
Binding Specificity:	AA 136-258
Reactivity:	Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This STAT4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human Stat4 aa. 136-258
Clone:	8-Stat4
lsotype:	lgG1
Cross-Reactivity:	Rat (Rattus), 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

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Product Details

chromatography.

Target Details

Target:	STAT4
Alternative Name:	Stat4 (STAT4 Products)
Background:	The Stat proteins function as both cytoplasmic signal transducers and activators of
	transcription. Stat91/84 (the two proteins are the result of alternate splicing-Stat91 has an
	additional 38 C-terminal amino acids) and Stat113 were the first identified members of this
	protein family. With the discovery of additional members of the Stat family (Stat 3 & 4), the
	nomenclature has been revised to reflect the order of their discovery. Stat 91, 84, and 113 have
	become Stat1alpha, Stat1beta, and Stat2, respectively. Stat4 has been reported to be 52%
	identical to Stat1 and 47% identical to Stat3. Functionally, Stat4 is similar to the other Stat
	proteins in that it requires tyrosine phosphorylation in order to stimulate its IFN-gamma
	activated site (GAS) binding activity. Expression of Stat4 appears to be limited to thymus,
	spleen, and testis. Its expression in several myeloid cell lines is differentially regulated during
	cellular differentiation. Co-transfection studies using JAK1 or JAK2 expression constructs
	indicate that Stat4 is a substrate for these kinases.
	Synonyms: Signal Transducers and Activators of Transcription-4
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

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Handling	
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.
Publications	
Product cited in:	Frank, Robertson, Bonni, Ritz, Greenberg: "Interleukin 2 signaling involves the phosphorylation of
	Stat proteins." in: Proceedings of the National Academy of Sciences of the United States of
	America, Vol. 92, Issue 17, pp. 7779-83, (1995) (PubMed).
	Yamamoto, Quelle, Thierfelder, Kreider, Gilbert, Jenkins, Copeland, Silvennoinen, Ihle: "Stat4, a
	novel gamma interferon activation site-binding protein expressed in early myeloid
	differentiation." in: Molecular and cellular biology, Vol. 14, Issue 7, pp. 4342-9, (1994) (PubMed
).
	Zhong, Wen, Darnell: "Stat3 and Stat4: members of the family of signal transducers and
	activators of transcription." in: Proceedings of the National Academy of Sciences of the
	United States of America, Vol. 91, Issue 11, pp. 4806-10, (1994) (PubMed).

Images

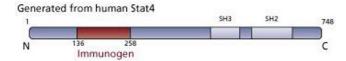


Western Blotting

Image 1. Western blot analysis of Stat4 on a rat testis lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-Stat4 antibody.

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Image 2.



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