

Datasheet for ABIN968594

anti-STAT6 antibody (pTyr641)

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Overview

Quantity:	150 µg
Target:	STAT6
Binding Specificity:	pTyr641
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This STAT6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Phosphorylated Human Stat6 (pY641)
Clone:	18-P
Isotype:	IgG2a
Characteristics:	<ol style="list-style-type: none">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 chromatography.

Target Details

Target:	STAT6
Alternative Name:	Stat6 (STAT6 Products)
Background:	<p>Interleukin-4 (IL-4), a major immunoregulatory cytokine, is secreted by activated T lymphocytes, basophils, and mast cells and plays an important role in modulating T helper cell lineage development. It induces specific gene expression via the tyrosine phosphorylation of Stat6 at tyrosine 641 (Y641). Stat6, a member of the signal transducers and activators of transcription protein family, mediates signals for IL-4 and, possibly, IL-13. While Stat6 is widely expressed in human tissues, it exhibits elevated expression in peripheral blood lymphocytes, colon, intestine, ovary, prostate, thymus, spleen, kidney, liver, lung, and placenta. Following cytokine receptor ligation, Jak kinases are activated and phosphorylate the cytoplasmic tails of the oligomerized receptors. The SH3:SH2 domain of Stat6 associates with tyrosine-phosphorylated IL-4 receptor and the proximal Jak kinase phosphorylates Stat6 at Y641 on the C-terminal side of the SH2 domain. Stat6 is then released from the receptor, dimerizes, and is thought to contact the basal transcription machinery by binding to p300/CBP. Thus, Stat6 mediates the IL-4 signal and is essential for the proper development of adaptive immunity. Immunofluorescent labelling of phosphorylated Stat6 in endothelial cells exposed to 10 ng/ml IL-4 for 1 hour.</p>
Molecular Weight:	100 kDa
Pathways:	JAK-STAT Signaling , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response

Application Details

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.

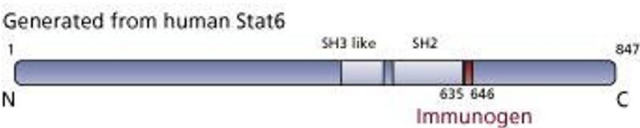
Publications

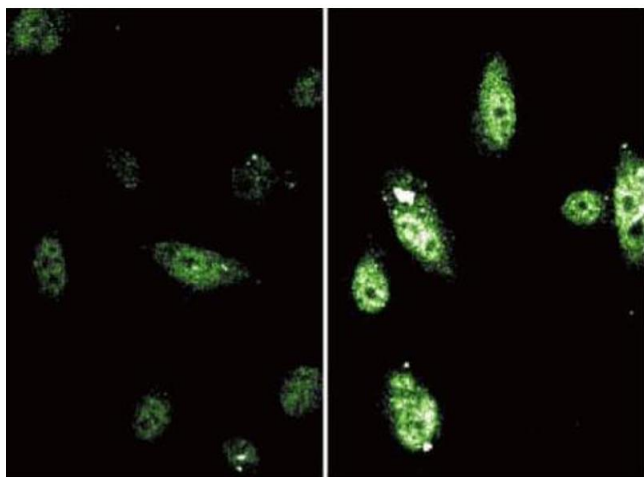
Product cited in: Mikita, Campbell, Wu, Williamson, Schindler: "Requirements for interleukin-4-induced gene expression and functional characterization of Stat6." in: **Molecular and cellular biology**, Vol. 16, Issue 10, pp. 5811-20, (1996) ([PubMed](#)).

Quelle, Shimoda, Thierfelder, Fischer, Kim, Ruben, Cleveland, Pierce, Keegan, Nelms: "Cloning of murine Stat6 and human Stat6, Stat proteins that are tyrosine phosphorylated in responses to IL-4 and IL-3 but are not required for mitogenesis." in: **Molecular and cellular biology**, Vol. 15, Issue 6, pp. 3336-43, (1995) ([PubMed](#)).

Hou, Schindler, Henzel, Ho, Brasseur, McKnight: "An interleukin-4-induced transcription factor: IL-4 Stat." in: **Science (New York, N.Y.)**, Vol. 265, Issue 5179, pp. 1701-6, (1994) ([PubMed](#)).

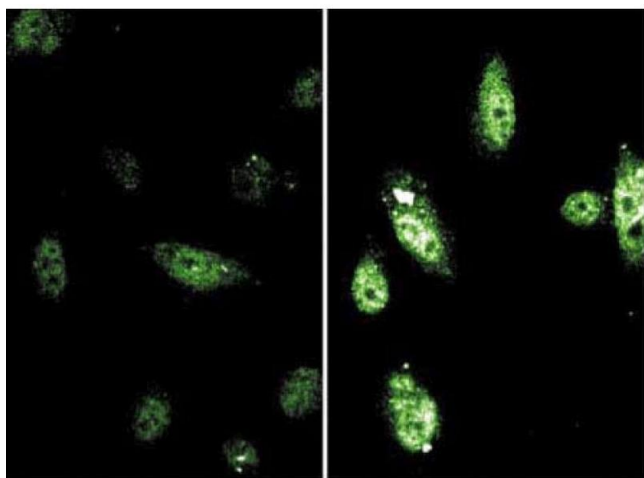
Images





Immunofluorescence

Image 2. Immunofluorescent labelling of phosphorylated Stat6 in endothelial cells exposed to 10 ng/ml IL-4 for 1 hour.



Immunofluorescence

Image 3.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968594.