abcam

ab278764

Anti-STAT5 (phospho Y694) antibody [Stat5Y694-G11]

Recombinant | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Synthetic Peptide within Human STAT5A pY694. The exact immunogen used to generate this antibody is proprietary information. Database link P42229
Clone number	Stat5Y694-G11
Purification technique	Affinity purification Protein A/G
Light chain type	kappa
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Mouse

Dilution info	0.001-1 µg/mL
Notes	-

Species	Human
Dilution info	0.001-1 µg/mL
Notes	-

WB

Tested

Species	Mouse
Dilution info	0.001-1 µg/mL
Notes	-

Species	Human
Dilution info	0.001-1 µg/mL
Notes	-

Target data

See full target information STAT5A pY694

Function	Carries out a dual function: signal transduction and activation of transcription. Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. Mediates cellular responses to ERBB4. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the GAS element and activates PRL-induced transcription. Regulates the expression of milk proteins during lactation.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Signal Transducer and Activator of Transcription 5 commonly known as STAT5 is a member of the STAT protein family. It weighs approximately 94 kDa. STAT5 usually exists in two closely related forms STAT5a and STAT5b with both playing similar roles but having slightly different activity. This protein is widely expressed found in cells like lymphocytes epithelial cells and endothelial cells indicating its importance in various tissues.
Biological function summary	STAT5 acts as a transcription factor that modulates gene expression by binding to specific DNA sequences. It often forms part of a larger complex when activated. This complex relocation to the nucleus triggers transcriptional activities essential for cell growth differentiation and survival. As it interacts with other proteins STAT5 plays an important role in cytokine signaling particularly in response to interleukins and growth hormones.
Pathways	STAT5 is important in the JAK-STAT signaling pathway. This pathway is activated by cytokines and growth factors leading to STAT5 phosphorylation and its subsequent translocation into the nucleus. The interaction with Janus kinases (JAKs) facilitates this process. STAT5 also plays a significant role in the MAPK pathway linking it to various cellular responses and functions.
Associated diseases and disorders	STAT5 has a strong association with oncological conditions like leukemia and lymphomas. Aberrant activation or dysregulation of STAT5 can lead to uncontrolled cell proliferation and survival contributing to cancer. Furthermore STAT5 is linked with autoimmune diseases with its malfunction affecting immune response and leading to disorders. In these conditions proteins like BCL-XL often interact with STAT5 influencing cell survival pathways.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

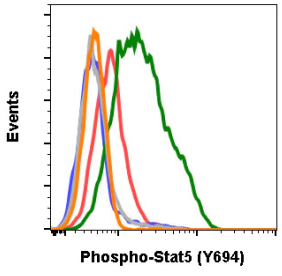
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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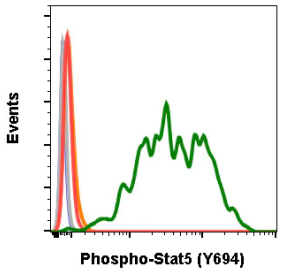
5 product images



Flow Cytometry - Anti-STAT5 (phospho Y694) antibody [Stat5Y694-G11] (ab278764)

STAT5 (phospho Y694) Flow Cytometry staining using rabbit Anti-STAT5 (phospho Y694) antibody

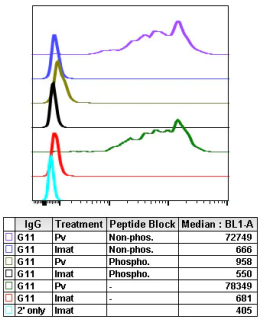
Flow cytometric analysis of K562 cells secondary antibody only negative control (blue) or untreated (grey) or treated with pervanadate (orange) using 0.1 µg/mL isotype control or untreated (red) or pervanadate (green) using ab278764.



Flow Cytometry - Anti-STAT5 (phospho Y694) antibody [Stat5Y694-G11] (ab278764)

STAT5 (phospho Y694) Flow Cytometry staining using rabbit Anti-STAT5 (phospho Y694) antibody

Flow cytometric analysis of 3T3 cells secondary antibody only negative control (blue) or untreated (grey) or treated with pervanadate (orange) using 0.1 µg/mL isotype control or untreated (red) or pervanadate (green) using ab278764 at 0.1 µg/mL.

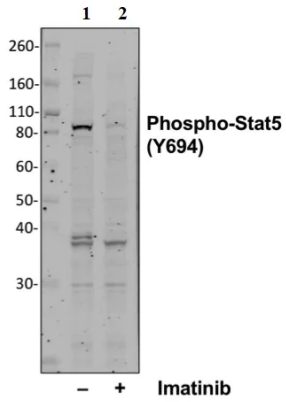


	IgG	Treatment	Peptide Block	Median : BL1-A
	G11	Pv	Non-phos.	72749
	G11	Imat	Non-phos.	666
	G11	Pv	Phospho.	958
	G11	Imat	Phospho.	550
	G11	Pv	-	78349
	G11	Imat	-	681
	2° only	Imat		405

Flow Cytometry - Anti-STAT5 (phospho Y694) antibody [Stat5Y694-G11] (ab278764)

STAT5 (phospho Y694) Flow Cytometry staining using rabbit Anti-STAT5 (phospho Y694) antibody

Peptide blocking flow cytometric analysis of 3T3 cells secondary antibody only negative control (light blue) or treated with imatinib (red) or pervanadate-treated (green) or imatinib and blocked with phospho-peptide (black) or pervanadate and blocked with phospho peptide (gold) or imatinib and blocked with non-phospho peptide (dark blue) or pervanadate and blocked with non-phospho peptide (purple) using ab278764 at 0.1 µg/mL.



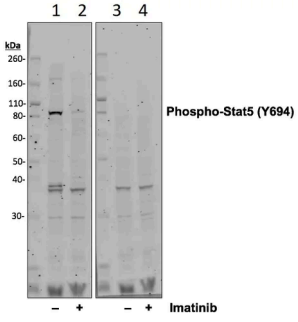
Western blot - Anti-STAT5 (phospho Y694) antibody [Stat5Y694-G11] (ab278764)

All lanes:
Western blot - Anti-STAT5 (phospho Y694) antibody [Stat5Y694-G11] (ab278764) at 0.01 µg/mL

Lane 1:
K562 cell extract untreated

Lane 2:
K562 cell extract treated with imatinib

Predicted band size: 91 kDa



Western blot - Anti-STAT5 (phospho Y694) antibody [Stat5Y694-G11] (ab278764)

Lanes 1 - 2:
Western blot - Anti-STAT5 (phospho Y694) antibody [Stat5Y694-G11] (ab278764) at 0.01 µg/mL

Lanes 3 - 4:
No primary antibody control

Lanes 1 and 3:
K562 cell extract untreated

Lanes 2 and 4:
K562 cell extract treated with imatinib

Predicted band size: 91 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.