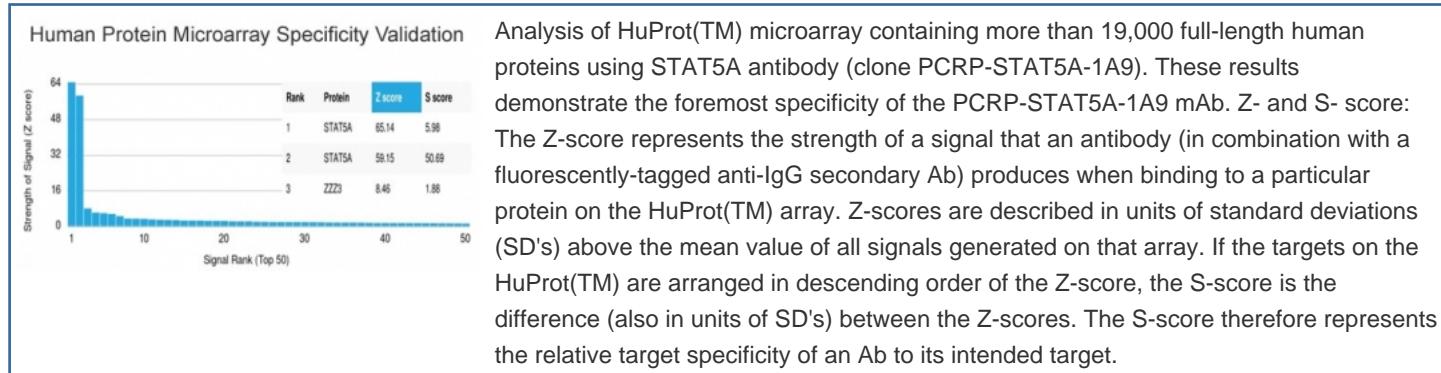


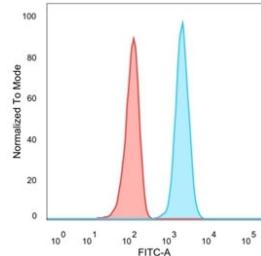
## STAT5A Antibody [clone PCRP-STAT5A-1A9] (V9244)

Catalog No.	Formulation	Size
V9244-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9244-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9244SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

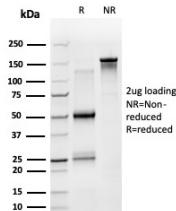
[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2c
Clone Name	PCRP-STAT5A-1A9
Purity	Protein A/G affinity
UniProt	P42229
Localization	Cytoplasm, Nucleus
Applications	Flow Cytometry : 1-2ug/million cells
Limitations	This STAT5A antibody is available for research use only.





FACS staining of PFA-fixed human HeLa cells with STAT5A antibody (blue, clone PCRP-STAT5A-1A9) and isotype control (red).



SDS-PAGE analysis of purified, BSA-free STAT5A antibody (PCRP-STAT5A-1A9) as confirmation of integrity and purity.

## Description

Signal transducer and activator of transcription 5A (Stat5a) and Stat5b, which share 96% homology, undergo receptor tyrosine kinase or G protein-coupled receptor-dependent phosphorylation in response to cytokines or growth factors, and then form homo- or heterodimers that translocate to the nucleus, where they initiate transcription. Activation of Stat5a via IL-2, IL-3, IL-7/ GM-CSF, erythropoietin, thrombopoietin and growth hormones influences proliferation, differentiation and apoptosis in lymphohematopoietic cells. Phosphorylation of Stat5a at Ser127/Ser128 and Ser779 are contingent on ErbB-4- mediated activation of Stat5a. Activation of Stat5b via IL-2, IL-4, CSF-1 and growth hormones influences TCR signaling, apoptosis, adult mammary gland development and sexual dimorphism of liver gene expression. Stat5b is the major liver-expressed Stat5 form that has been shown to fuse with the retinoic acid receptor  $\alpha$  gene in acute promyelocytic leukemias (APLL). Stat5a/b null mice have severely impaired lymphoid development and differentiation.

## Application Notes

Optimal dilution of the STAT5A antibody should be determined by the researcher.

## Immunogen

Protein domain of STAT5A was used as the immunogen for the STAT5A antibody.

## Storage

Aliquot the STAT5A antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.