

STAT3 (Phospho Tyr705) Rabbit mAb (AR1894)

Key Features

Host Species:	Rabbit
Reactivity:	Human,Mouse,Rat
Applications:	WB,IHC,IF,IP,ELISA
Isotype:	IgG,Kappa
MW:	88kDa (Calculated) 88kDa (Observed)

Recommended Dilution Ratios

IHC:	1:200-1000
WB:	1:2000-10000
IF:	1:200-1000
ELISA:	1:5000-20000
IP:	1:50-200

Storage -15°C to -25°C/1 year (Do not lower than -25°C)

Basic Information

Clonality	Monoclonal
-----------	------------

Immunogen Information

Specificity	Phospho-Stat3 (Y705) protein detects endogenous levels of STAT3
-------------	---

Target Information

Gene name	STAT3 APRF
-----------	------------

Protein Name	Signal transducer and activator of transcription 3
--------------	--

Organism	Gene ID	UniProt ID
Human	6774	P40763
Mouse	20848	P42227
Rat	25125	P52631

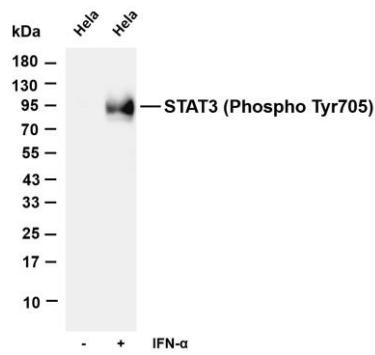
Cellular Localization	Cytoplasm. Nucleus. Shuttles between the nucleus and the cytoplasm. Translocated into the nucleus upon tyrosine phosphorylation and dimerization, in response to signaling by activated FGFR1, FGFR2, FGFR3 or FGFR4. Constitutive nuclear
-----------------------	--

presence is independent of tyrosine phosphorylation. Predominantly present in the cytoplasm without stimuli. Upon leukemia inhibitory factor (LIF) stimulation, accumulates in the nucleus. The complex composed of BART and ARL2 plays an important role in the nuclear translocation and retention of STAT3. Identified in a complex with LYN and PAG1.

Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Expressed in naiveCD4(+) T cells as well as T-helper Th17, Th1 and Th2 cells (PubMed:31899195).

Tissue specificity

Validation Data



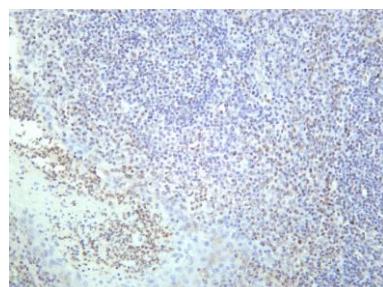
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-STAT3 (Phospho Tyr705) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody.

Lane 1: HeLa

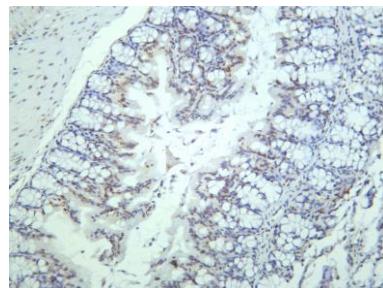
Lane 2: HeLa was starved of serum overnight and then treated with INF- α (100 ng/mL) for 5 minutes.

Predicted band size: 88kDa

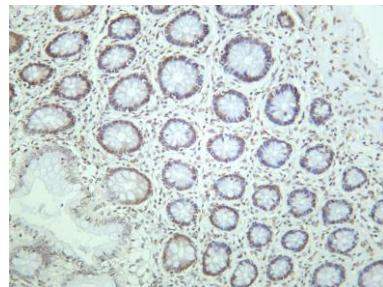
Observed band size: 88kDa



Human tonsil was stained with anti-STAT3 (Phospho Tyr705) rabbit antibody.



Mouse colon was stained with anti-STAT3 (Phospho Tyr705) rabbit antibody.



Human colon was stained with anti-STAT3 (Phospho Tyr705) rabbit antibody.