STAT3 (Phospho Ser727) Rabbit mAb (AR1878)

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:	1:400-1000
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 (S727) Antibody detects endogenous levels of Stat3 protein only when phosphorylated at S727.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): PMsPR

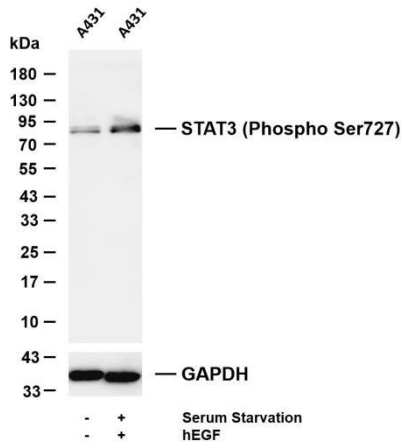
Target Information

Gene name	STAT3 APRF
Protein Name	Signal transducer and activator of transcription 3

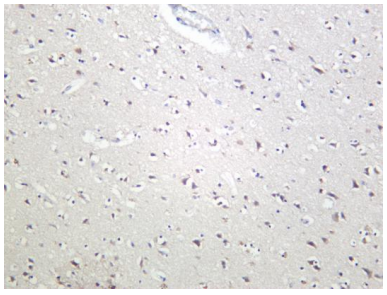
Organism	Gene ID	UniProt ID
Human	6774	P40763
Mouse	20848	P42227
Rat	25125	P52631

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.
Tissue specificity	Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas. Expressed in naive CD4(+) T cells as well as T-helper Th17, Th1 and Th2 cells (PubMed:31899195).

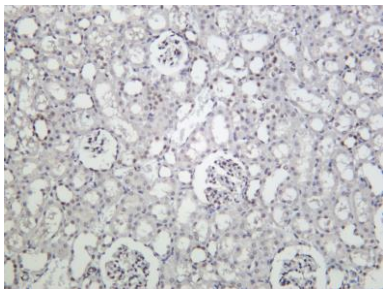
Validation Data



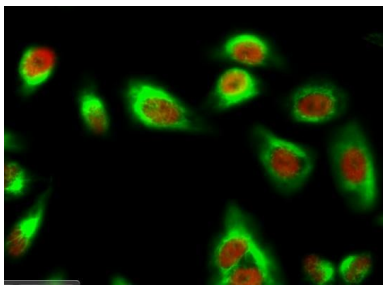
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-STAT3 (Phospho Ser727) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.
Lane 1: A431
Lane 2: A431 serum was starved overnight and treated with hEGF(100ng/ml) for 5 minutes
Predicted band size: 88kDa
Observed band size: 88kDa



Human brain was stained with anti-STAT3 (Phospho Ser727) Rabbit antibody.



Rat kidney was stained with anti-STAT3 (Phospho Ser727) Rabbit antibody.



Immunofluorescence analysis of Hela cell.

1. Stat3 (phospho Ser727) Monoclonal Antibody(red) was diluted at 1:200(4℃ overnight). Caspase 9 Monoclonal Antibody (green) was diluted at 1:200(4℃ overnight).
2. Goat Anti Rabbit Alexa Fluor 594 was diluted at 1:1000(room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 was diluted at 1:1000 (room temperature, 50min).

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