

# STAT1 (Phospho Tyr701) Rabbit mAb (AR1937)

## Key Features

Host Species:	Rabbit
Reactivity:	Human, Mouse
Applications:	WB, IHC, IF, IP, ELISA
Isotype:	IgG, Kappa
MW:	87kDa (Calculated) 87kDa (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
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## Immunogen Information

STAT1 (Phospho Tyr701) Antibody detects endogenous levels of Stat1 protein only when phosphorylated at Y701. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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): TGyIK

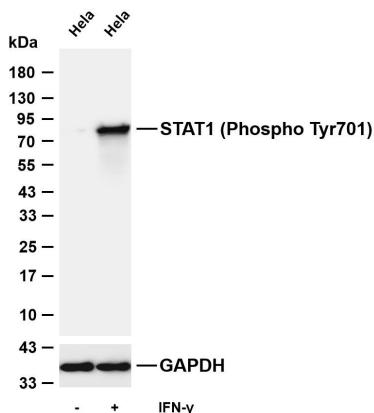
## Target Information

Gene name	STAT1
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Protein Name	Signal transducer and activator of transcription 1-alpha/beta
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	Organism	Gene ID	UniProt ID
	Human	6772	P42224
	Mouse		P42225
Cellular Localization	Cytoplasm. Nucleus. Translocated into the nucleus upon tyrosine phosphorylation and dimerization, in response to IFN-gamma and signaling by activated FGFR1, FGFR2, FGFR3 or FGFR4 (PubMed:15322115). Monomethylation at Lys-525 is required for phosphorylation at Tyr-701 and translocation into the nucleus (PubMed:28753426). Translocates into the nucleus in response to interferon-beta stimulation (PubMed:26479788). .		
Tissue specificity	B-cell, Brain, Retina, Testis		

## Validation Data



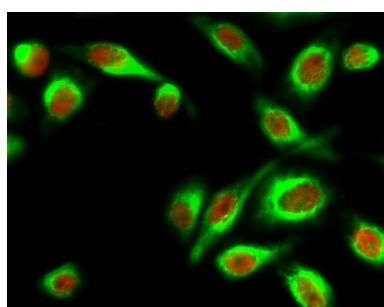
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-STAT1 (Phospho Tyr701) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.

Lane 1: HeLa

Lane 2: HeLa was treated with IFN  $\gamma$ (100ng/ml) for 4 hours

Predicted band size: 87kDa

Observed band size: 87kDa



Immunofluorescence analysis of HeLa cell.

1. Stat1 (phospho Tyr701) Antibody(red) was diluted at 1:200(4°C overnight). HER2 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).

Immunofluorescence analysis of rat-spleen tissue.

1. Stat1 (phospho Tyr701) Antibody(red) was diluted at 1:200(4°C, overnight).
2. Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).
3. Picture B: DAPI(blue) 10min.

Picture A: Target. Picture B: DAPI. Picture C: merge of A+B

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