

Anti-STAT3 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

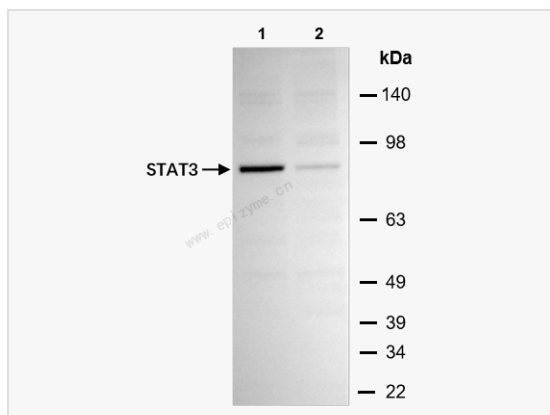
Catalog # R900003

Product Information

Application	WB, ELISA
Reactivity	Human, Mouse
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	30I25F70
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human STAT3
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-STAT3 Rabbit mAb [30I25F70] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	APRF; STAT3; Signal transducer and activator of transcription 3; Acute-phase response factor.
Calculated MW	Calculated MW: 88 kDa; Observed MW: 92 kDa
Uniprot ID	P40763
Gene ID	6774
Background	Signal transducer and transcription activator that mediates cellular responses to interleukins, KITLG/SCF, LEP and other growth factors (PubMed:10688651, PubMed:12359225, PubMed:12873986, PubMed:15194700, PubMed:15653507, PubMed:16285960, PubMed:17344214, PubMed:18242580, PubMed:18782771, PubMed:22306293, PubMed:23084476, PubMed:28262505, PubMed:32929201). Once activated, recruits coactivators, such as NCOA1 or MED1, to the promoter region of the target gene (PubMed:15653507, PubMed:16285960, PubMed:17344214, PubMed:18782771, PubMed:28262505, PubMed:32929201). May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4 (PubMed:12873986). Upon activation of IL6ST/gp130 signaling by interleukin-6 (IL6), binds to the IL6-responsive elements identified in the promoters of various acute-phase protein genes (PubMed:12359225). Activated by IL31 through IL31RA (PubMed:15194700). Acts as a regulator of inflammatory response by regulating differentiation of naive CD4+ T-cells into T-helper Th17 or regulatory T-cells (Treg): acetylation promotes its transcription activity and cell differentiation while deacetylation and oxidation of lysine residues by LOXL3 inhibits differentiation (PubMed:28065600, PubMed:28262505). Involved in cell cycle regulation by inducing the expression of key genes for the progression from G1 to S phase, such as CCND1 (PubMed:17344214). Mediates the effects of LEP on melanocortin production, body energy homeostasis and lactation (By similarity). May play an apoptotic role by transactivating BIRC5 expression under LEP activation (PubMed:18242580). Cytoplasmic STAT3 represses



Western Blot - Anti-STAT3 Rabbit mAb [30I25F70]

All lanes: R900003 at 1:1,000 dilution

Lane 1: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 2: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lysates/proteins at 20 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated (LF102) with dilution of 1:5,000

Predicted band size: 88 kDa

Observed band size: 92 kDa

Developed using the ECL technique (Cat. No. SQ201).