

Anti-STAT3 Mouse mAb

Purified Recombinant Mouse Monoclonal Antibody

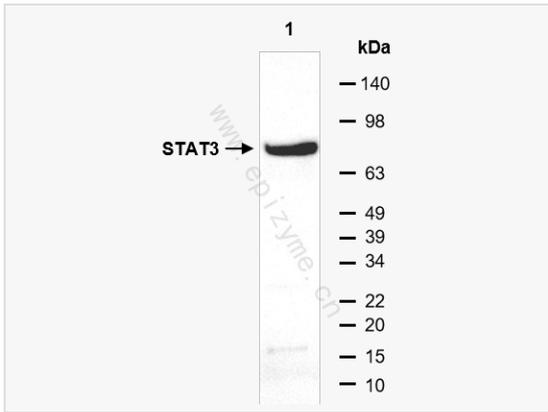
Catalog # M900014

Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Mouse (Cell), Human
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Mouse
Clonality	Monoclonal
Clone No.	76H67N59
Isotype	IgG
Label	Unconjugated
Immunogen	This STAT3 antibody is generated from mice immunized with a SHC (Shrimp Hemocyanin) conjugated synthetic peptide from homo sapiens (Human).
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% 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 Mouse mAb [76H67N59] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	1110034C02Rik, Acute Phase Response Factor, Acute-phase response factor, ADMIO, APRF, AW109958, DNA binding protein APRF, FLJ20882, HIES, MGC16063, Signal transducer and activator of transcription 3 (acute phase response factor), Signal transducer and activator of transcription 3, STAT 3, Stat3, STAT3_HUMAN.
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



Western Blot - Anti-STAT3 Mouse mAb [76H67N59]

All lanes: M900014 at 1:1,000 dilution

Lane 1: NIH/3T3 (Mouse Embryonic Fibroblast Cell) whole cell lysates

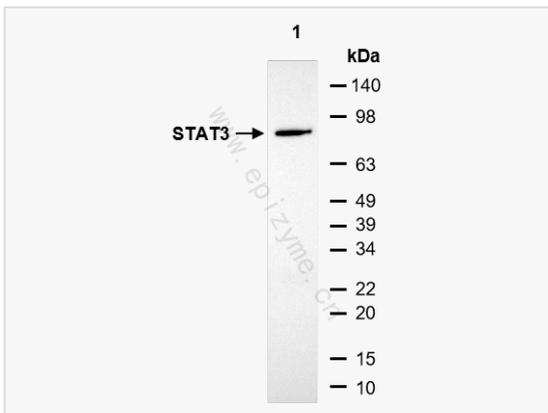
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Mouse IgG(H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution

Predicted band size: 88 kDa

Observed band size: 92 kDa

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



Western Blot - Anti-STAT3 Mouse mAb [76H67N59]

All lanes: M900014 at 1:1,000 dilution

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

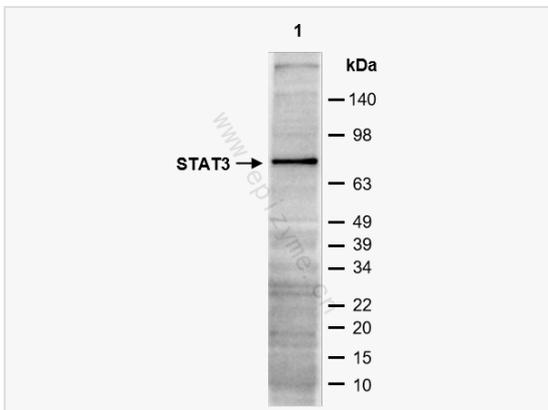
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Mouse IgG(H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution

Predicted band size: 88 kDa

Observed band size: 92 kDa

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



Western Blot - Anti-STAT3 Mouse mAb [76H67N59]

All lanes: M900014 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

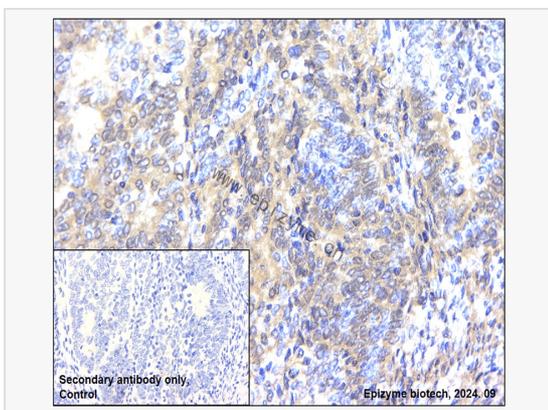
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Mouse IgG(H+L), HRP Conjugated (Cat. No. LF101) at 1:5,000 dilution

Predicted band size: 88 kDa

Observed band size: 92 kDa

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



Immunohistochemistry - Anti-STAT3 Mouse mAb [76H67N59]

Sample: Paraformaldehyde-fixed, paraffin embedded human endometrial carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: M900014 at 1:200 dilution

Secondary antibody: Goat Anti-Mouse IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.

Immunofluorescence - Anti-STAT3 Mouse mAb [76H67N59]

Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: M900014 at 1:100 dilution

Secondary antibodies: Goat anti-Mouse (488) at 1:1,000 dilution (shown in green)

Nuclei were stained with DAPI (shown in blue).

