

Product datasheet for TA500177

OriGene Technologies, Inc.

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STAT3 Mouse Monoclonal Antibody [Clone ID: OTI21E7]

Product data:

Product Type: Primary Antibodies

Clone Name: OTI21E7
Applications: IHC, WB

Reactivity: WB: 1:500, IHC 1:50 **Reactivity:** Human, Mouse, Rat

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Recombinant protein expressed in E.coli corresponding to amino acids 154-175 of human

stat3

Formulation: PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

Concentration: 0.35 mg/ml

Purification: Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 88.08 kDa

Gene Name: signal transducer and activator of transcription 3

Database Link: NP 998827

Entrez Gene 20848 MouseEntrez Gene 25125 RatEntrez Gene 6774 Human

P40763





Background:

The protein encoded by this gene is a member of the STAT protein family. In response to cytokinesand growth factors, STAT family members are phosphorylated by the receptor associated kinases, andthen form homo- or heterodimers that translocate to the cell nucleus where they act astranscription activators. This protein is activated through phosphorylation in response to variouscytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This proteinmediates the expression of a variety of genes in response to cell stimuli, and thus plays a keyrole in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has beenshown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor ofthis protein. Three alternatively spliced transcript variants encoding distinct isoforms have beendescribed

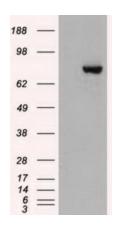
Synonyms: ADMIO; APRF; HIES

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Acute myeloid leukemia, Adipocytokine signaling pathway, Chemokine signaling pathway, Jak-

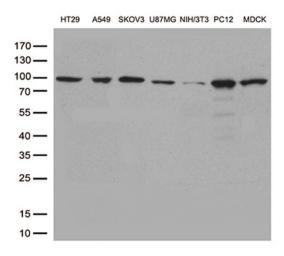
STAT signaling pathway, Pancreatic cancer, Pathways in cancer

Product images:

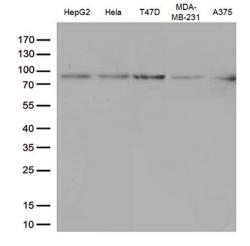


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY STAT3 (Cat# [RC212394], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-STAT3(Cat# TA500177). Positive lysates [LY403728] (100ug) and [LC403728] (20ug) can be purchased separately from OriGene.

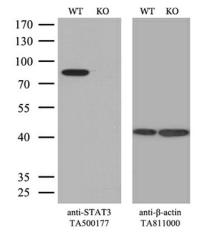




Western blot analysis of extracts (35ug) from different cell line by using anti-STAT3 monoclonal antibody (1:500).

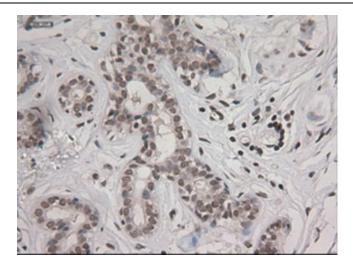


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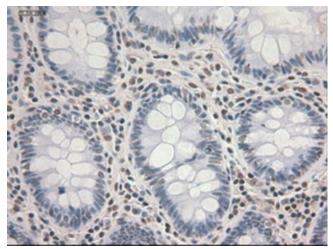


Equivalent amounts of cell lysates (10 ug per lane) of wild-type Hela cells (WT, Cat# LC810HELA) and STAT3-Knockout Hela cells (KO, Cat# [LC810228]) were separated by SDS-PAGE and immunoblotted with anti-STAT3 monoclonal antibody TA500177. Then the blotted membrane was stripped and reprobed with anti-b-actin antibody ([TA811000]) as a loading control (1:500).

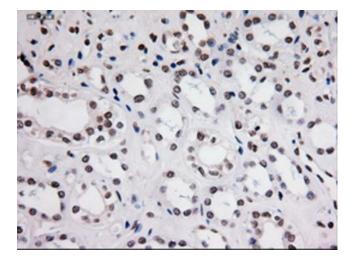




Immunohistochemical staining of paraffinembedded breast within the normal limits using anti-STAT3 (TA500177) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

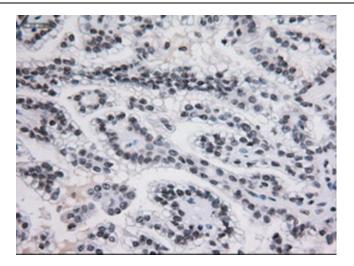


Immunohistochemical staining of paraffinembedded colon within the normal limits using anti-STAT3 (TA500177) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

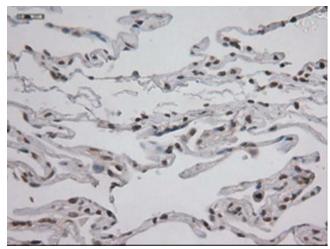


Immunohistochemical staining of paraffinembedded kidney within the normal limits using anti-STAT3 (TA500177) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

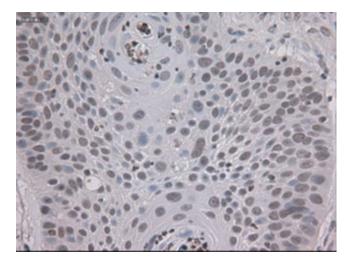




Immunohistochemical staining of paraffinembedded Carcinoma of kidney using anti-STAT3 (TA500177) mouse monoclonal antibody. Heatinduced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

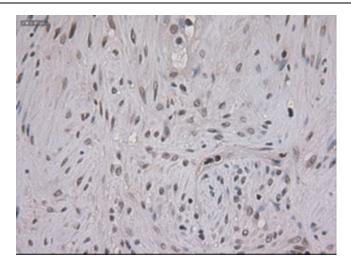


Immunohistochemical staining of paraffinembedded lung within the normal limits using anti-STAT3 (TA500177) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.

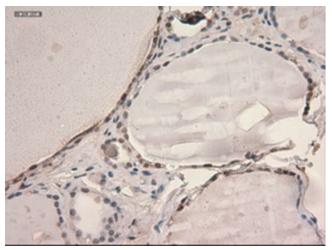


Immunohistochemical staining of paraffinembedded Carcinoma of lung using anti-STAT3 (TA500177) mouse monoclonal antibody. Heatinduced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.





Immunohistochemical staining of paraffinembedded Carcinoma of pancreas using anti-STAT3 (TA500177) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffinembedded thyroid within the normal limits using anti-STAT3 (TA500177) mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.