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Product datasheet for TA382094S

STAT3 Rabbit Polyclonal Antibody

Product data:

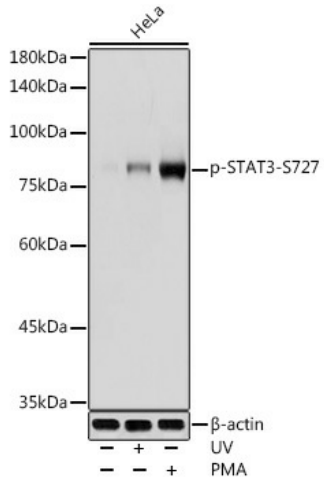
Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	WB,1:500 - 1:2000 IHC,1:50 - 1:200 IP,1:50 - 1:100
Reactivity:	Human, Mouse, Rat
Modifications:	Phospho S727
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	A synthetic phosphorylated peptide around S727 of human Phospho-STAT3-S727 (NP_644805.1).
Formulation:	Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20℃. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	83kDa/87kDa/88kDa
Gene Name:	signal transducer and activator of transcription 3
Database Link:	Entrez Gene 6774 Human P40763

View online »

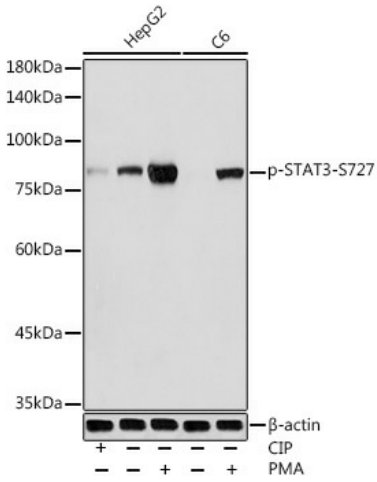
Background: The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

Synonyms: APRF; FLJ20882; HIES; MGC16063

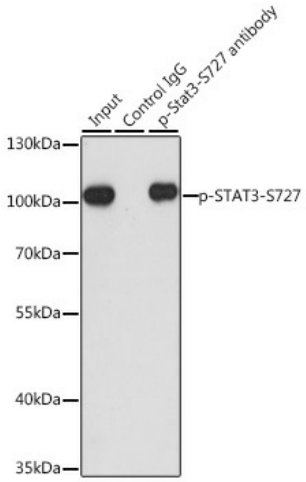
Product images:



Western blot analysis of extracts of HeLa cells, using Phospho-STAT3-S727 antibody ([TA382094]) at 1:1000 dilution.HeLa cells were treated by UV at room temperature for 15-30 minutes.HeLa cells were treated by PMA/TPA (200 nM) at 37℃ for 15 minutes after serum-starvation overnight.|Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.|Lysates/proteins: 25ug per lane.|Blocking buffer: 3% nonfat dry milk in TBST.|Detection: ECL Basic Kit .|Exposure time: 1s.



Western blot analysis of extracts of various cell lines, using Phospho-STAT3-S727 antibody ([TA382094]) at 1:1000 dilution.HepG2 cells and C6 cells were treated by PMA/TPA (200 nM) at 37℃ for 30 minutes after serum-starvation overnight.HepG2 cells were treated by CIP(20uL/400ul) at 37℃ for 1 hour.|Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.|Lysates/proteins: 25ug per lane.|Blocking buffer: 3% nonfat dry milk in TBST.|Detection: ECL Basic Kit .|Exposure time: 1s.



Immunoprecipitation analysis of 200ug extracts of HeLa cells, using 3 ug Phospho-STAT3-S727 pAb ([TA382094]). Western blot was performed from the immunoprecipitate using Phospho-STAT3-S727 pAb ([TA382094]) at a dilition of 1:1000. HeLa cells were treated by PMA/TPA (200 nM) at 37℃ for 15 minutes after serum-starvation overnight.