



Phospho-STAT3 (S727) Recombinant Monoclonal Antibody

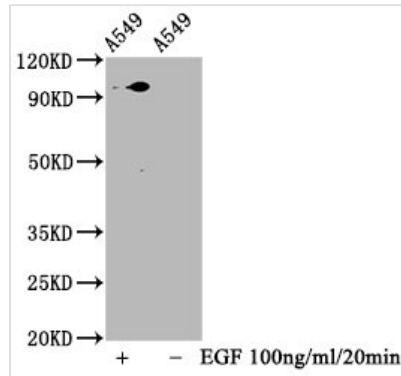
Product Code	CSB-RA022812A727phHU
Abbreviation	Signal transducer and activator of transcription 3
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P40763
Immunogen	A synthesized peptide derived from Human Phospho-STAT3 (S727)
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC, IP; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IP:1:200-1:1000
Relevance	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:17344214, PubMed:18242580, PubMed:23084476). Once activated, recruits coactivators, such as NCOA1 or MED1, to the promoter region of the target gene (PubMed:17344214). May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4 (PubMed:12873986). Binds to the interleukin-6 (IL-6)-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): deacetylation and oxidation of lysine residues by LOXL3, leads to disrupt STAT3 dimerization and inhibit its transcription activity (PubMed:28065600). 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 macroautophagy by inhibiting EIF2AK2/PKR activity (PubMed:23084476). Plays a crucial role in basal beta cell functions, such as regulation of insulin secretion (By similarity).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in 10mM phosphate buffered saline , pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Signal transducer and activator of transcription 3, Acute-phase response factor,


STAT3
Immunogen Species Homo sapiens (Human)

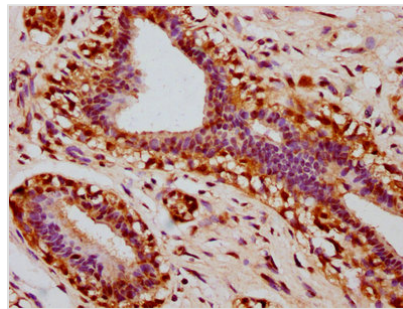
Research Area Signal Transduction

Target Names STAT3

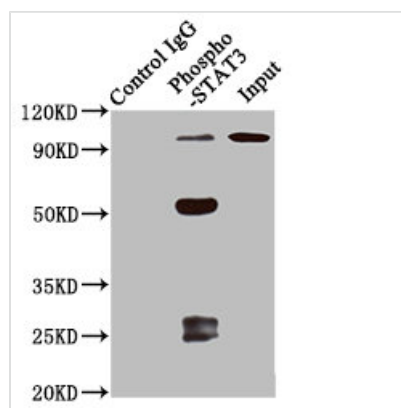
Clone No. 2A9

Image

Western Blot

Positive WB detected in A549 whole cell lysate (treated with EGF or not)
 All lanes Phospho-STAT3 antibody at 1.88 μ g/ml
 Secondary
 Goat polyclonal to rabbit IgG at 1/50000 dilution
 Predicted band size: 98 KDa
 Observed band size: 98 KDa



IHC image of CSB-RA022812A727pHU diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 $^{\circ}$ overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.


Immunoprecipitating Phospho-STAT3 in 293

whole cell lysate treated with Calyculin A
 Lane 1: Rabbit control IgG (1 μ g) instead of CSB-RA022812A727pHU in 293 whole cell lysate treated with Calyculin A. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)
 Lane 2: CSB-RA022812A727pHU (3 μ g) + 293 whole cell lysate treated with Calyculin A (1mg)
 Lane 3: 293 whole cell lysate treated with Calyculin A (20 μ g)

Usage

For Research Use Only. Not for use in diagnostic or therapeutic procedures.