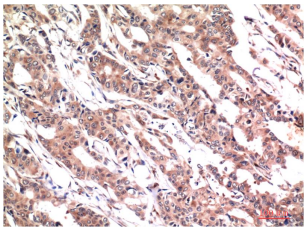
Phospho-STAT3 (Tyr705) (5E9) Mouse mAb

db6555 **Package : 50μL 100μL**

Product Name : Phospho-STAT3 (Tyr705) (5E9) Mouse mAb
Cat.No.: db6555
Synonyms : STAT3; APRF; Signal transducer and activator of transcription 3; Acute-phase response factor
Application : IHC-P
Reactivity : Human
Host species : Mouse

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/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 . May play an apoptotic role by transctivating 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 .
Immunogen	Synthetic peptide conjugated to KLH
Gene ID	6774
Swiss Prot	P40763
Synonyms	STAT3; APRF; Signal transducer and activator of transcription 3; Acute-phase response factor
Reactivity	Human
Application	IHC-P
Recommended dilution	IHC: 1:50-1:100
Host species	Mouse

Clonality	Monoclonal
Clonality No.	5E9-4D2-10H7
Isotype	IgG1
Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in PBS, 50% Glycerol(pH 7.3), 0.02% sodium azide and 0.5% BSA . Stable for 12 months from date of receipt.



Immunohistochemistry analysis of paraffin-embedded Human Breast Carcinoma Tissue using Phospho-STAT3 (Tyr705) (5E9) antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.