

Product Name: KD-Validated Phospho-STAT3 (Tyr705) Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA00760

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000
Molecular Weight	Calculated MW: 88.1kDa

Antigen Information

Gene Name	STAT3 STAT3; Signal Transducer And Activator Of Transcription 3; APRF; Acute-Phase Response
Alternative Names	Factor; Signal Transducer And Activator Of Transcription 3 (Acute-Phase Response Factor); DNA-Binding Protein APRF; ADMIO1; ADMIO; HIES
Gene ID	6774.0
SwissProt ID	P40763
Immunogen	A synthesized peptide derived from human Phospho-STAT3 (Tyr705)

Background

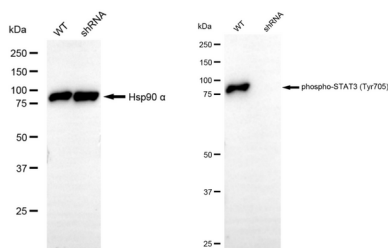
The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT

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. This gene also plays a role in regulating host response to viral and bacterial infections. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. [provided by RefSeq, Aug 2020]

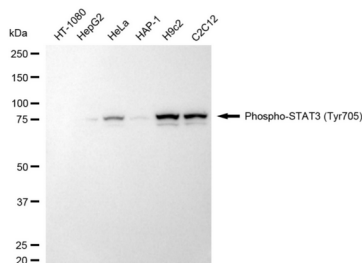
Research Area

Signal Transduction, Epigenetics and Nuclear Signaling, Stem Cells, Microbiology, Cancer, Cardiovascular, Developmental Biology

Image Data



Western blotting analysis using phospho-STAT3 (Tyr705) antibody (KVA00760). Phospho-STAT3 (Tyr705) expression in wild type (WT) and STAT3 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with phospho-STAT3 (Tyr705) antibody (KVA00760, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using phospho-STAT3 (Tyr705) antibody (KVA00760). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with phospho-STAT3 (Tyr705) antibody (KVA00760, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.