
Product Name: KD-Validated STAT6 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00176**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
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; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 94.1kDa

Antigen Information

Gene Name	STAT6 STAT6; Signal Transducer And Activator Of Transcription 6; IL-4-STAT; D12S1644; Signal
Alternative Names	Transducer And Activator Of Transcription 6, Interleukin-4 Induced; Transcription Factor IL-4 STAT; STAT, Interleukin4-Induced; EC 2.4.1.227; EC 2.7.7.6; IL-4 Stat; STAT6B; STAT6C
Gene ID	6778.0
SwissProt ID	P42226
Immunogen	A synthesized peptide derived from human STAT6

Background

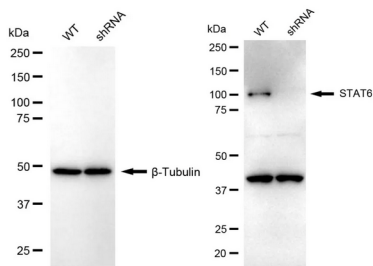
The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers

that translocate to the cell nucleus where they act as transcription activators. This protein plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. Alternative splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

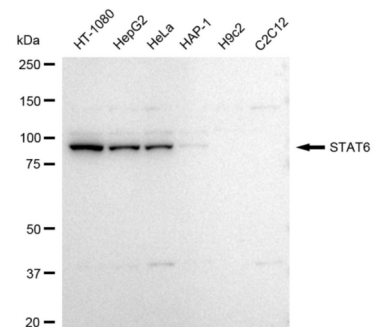
Research Area

Signal Transduction, Epigenetics and Nuclear Signaling, Cancer, Kits/ Lysates/ Other

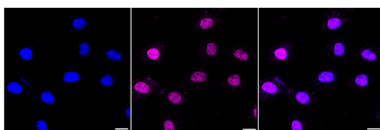
Image Data



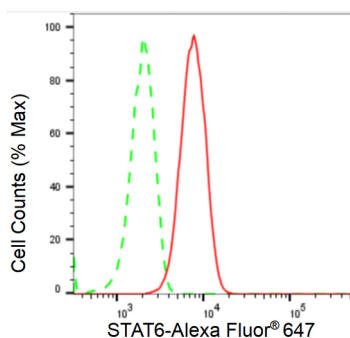
Western blotting analysis using STAT6 antibody (KVA00176). STAT6 expression in wild-type (WT) and STAT6 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with STAT6 antibody (KVA00176, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using STAT6 antibody (KVA00176). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with STAT6 antibody (KVA00176, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with STAT6 antibody (KVA00176, 1:1,000). Nuclei were stained blue with DAPI; STAT6 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of STAT6 expression in HT-1080 cells using STAT6 antibody (KVA00176, 1:2,000). Green, isotype control; red, STAT6.