STAT6 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	STAT6, Monoclonal Antibody
Full Product Name	STAT6 (Signal Transducer and Activator of Transcription 6, Interleukin-4 Induced, D12S1644, IL-4-STAT, STAT6B, STAT6C) (MaxLight 550)
Product Gene Name	anti-STAT6 antibody
Product Synonym Names	Signal Transducer and Activator of Transcription 6; Interleukin-4 Induced; D12S1644; IL-4-STAT; STAT6B; STAT6C
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4G7
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified
Specificity	Recognizes STAT6.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight550 conjugates are sensitive to light. For maximum recovery of prod centrifuge the original vial prior to removing the cap.
Molecular Weight	81,748 Da
Immunogen	STAT6 (NP_003144, 694aa-801aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	PPHSHSIPPYQGLSPEESVNVLSAFQEPHLQMPPSLGQMSLPFDQPHPQGLLPCQPQEHAVSSPDPLLCSDVTMVEDSCLSQPVTAFPQGTWIGEDIFP
Conjugate	MaxLight550
Product Categories/Family for anti-STAT6 antibody	Antibodies; Interleukin
Applications Tested/Suitable for anti-STAT6 antibody	Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-STAT6 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-STAT6 antibody	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 me phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcri 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), whi 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, ex cell surface markers, and class switch of immunoglobulins. [provided by RefSeq]

Other Notes	Small volumes of anti-STAT6 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional may apply.
Searchable Terms for STAT6 purchase	MBS6219433 is an antibody targeting STAT6. Also known as STAT6 (Signal Transducer and Activator of Transcription 6, Interleukin-4 Induced, D12S1 STAT, STAT6B, STAT6C) (MaxLight 550). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAT6. It may not necessarily be applicable to this product.

NCBI GI #	23397678
NCBI GeneID	6778
NCBI Accession #	NP_003144
UniProt Secondary Accession #	Q5FBW5; Q71UP4; A8K316; B7ZA27; F5GXI9
UniProt Related Accession #	P42226
GenBank Nucleotide #	NM_003153.4
NCBI Official Full Name	signal transducer and activator of transcription 6 isoform 1
NCBI Official Synonym Full Names	signal transducer and activator of transcription 6, interleukin-4 induced
NCBI Official Symbol	STAT6
NCBI Official Synonym Symbols	STAT6B; STAT6C; D12S1644; IL-4-STAT
Protein Family	Signal transducer and activator of transcription
NCBI Protein Information	signal transducer and activator of transcription 6
NCBI Summary for STAT6	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 Articles on STAT6	**1.** Strong nuclear STAT6 is largely specific for solitary fibrous tumors (SFTs). Physiologic low-level cytoplasmic/nuclear expression is common in mesenchymal neoplasia and is of uncertain significance.
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Online datasheet: https://www.mybiosource.com/monoclonal-antibody/stat6/6219433