TGIF2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TGIF2, Monoclonal Antibody
Full Product Name	TGIF2 (TGFB-Induced Factor Homeobox 2) (MaxLight 405)
Product Gene Name	anti-TGIF2 antibody
Product Synonym Names	TGFB-Induced Factor Homeobox 2
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4B10
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified
Specificity	Recognizes TGIF2.
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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	17,908 Da
OMIM	607294
3D Structure	ModBase 3D Structure for Q9GZN2
Immunogen	TGIF2 (NP_068581.1, 114aa-175aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	LAVSVPAPTNVLSLSVCSMPLHSGQGEKPAAPFPRGELESPKPLVTPGSTLTLLTRAEAGSP
Conjugate	MaxLight405
Product Categories/Family for anti-TGIF2 antibody	Antibodies; Transcription Factors; Homeobox (HOX)
Applications Tested/Suitable for anti-TGIF2 antibody	FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-TGIF2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TGIF2 antibody	The protein encoded by this gene is a DNA-binding homeobox protein and a transcriptional repressor. The encoded protein appears to repress transcription by recruiting histone deacetylases to TGF beta-responsive genes. This gene is amplified and overexpressed in some ovarian cancers, and mutations in this gene can cause holoprosencephaly. [provided by RefSeq]
Other Notes	Small volumes of anti-TGIF2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly 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 dry ice fee may apply.
Searchable Terms for TGIF2 purchase	MBS6198299 is an antibody targeting TGIF2. Also known as TGIF2 (TGFB-Induced Factor Homeobox 2) (MaxLight 405). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TGIF2. It may not necessarily be applicable to this product.

NCBI GI #	11141881
NCBI GeneID	60436
NCBI Accession #	NP_068581.1
UniProt Primary Accession #	Q9GZN2
UniProt Secondary Accession #	B2R9U3; E1P5T9; H0YNI0
UniProt Related Accession #	Q9GZN2
GenBank Nucleotide #	NM_021809.6
NCBI Official Full Name	homeobox protein TGIF2
NCBI Official Synonym Full Names	TGFB-induced factor homeobox 2
NCBI Official Symbol	TGIF2
UniProt Protein Name	Homeobox protein TGIF2
UniProt Synonym Protein Names	5'-TG-3'-interacting factor 2; TGF-beta-induced transcription factor 2; TGFB-induced factor 2
Protein Family	Homeobox protein
UniProt Gene Name	TGIF2
UniProt Synonym Gene Names	TGFB-induced factor 2
UniProt Entry Name	TGIF2_HUMAN
NCBI Protein Information	homeobox protein TGIF2; 5'-TG-3' interacting factor 2; TGF-beta-induced transcription factor 2; TGF(beta)-induced transcription factor 2; TGFB-induced factor 2 (TALE family homeobox); transcription growth factor-beta-induced factor 2
NCBI Summary for TGIF2	The protein encoded by this gene is a DNA-binding homeobox protein and a transcriptional repressor, which appears to repress transcription by recruiting histone deacetylases to TGF beta-responsive genes. This gene is amplified and over-expressed in some ovarian cancers. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 1. Read-through transcription also exists between this gene and the neighboring downstream C20orf24 (chromosome 20 open reading frame 24) gene. [provided by RefSeq, Dec 2010]
UniProt Comments for TGIF2	TGIF2: Transcriptional repressor, which probably repress transcription by binding directly the 5'-CTGTCAA-3' DNA sequence or by interacting with TGF-beta activated SMAD proteins. Probably represses transcription via the recruitment of histone deacetylase proteins. Belongs to the TALE/TGIF homeobox family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 20q11.23 Cellular Component: nucleoplasm; centrosome; nucleus Molecular Function: DNA binding; transcription factor activity Biological Process: transcription initiation from RNA polymerase II promoter; regulation of transcription, DNA-dependent; transcription, DNA-dependent; retina development in camera-type eye; transforming growth factor beta receptor signaling pathway; regulation of gastrulation; gene expression; negative regulation of transcription from RNA polymerase II promoter; positive regulation of neuron differentiation
Research Articles on TGIF2	**1.** Shows that the homologous mouse Tgif2 gene is necessary for gastrulation.

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