EBF3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	EBF3, Monoclonal Antibody
Full Product Name	EBF3 (Transcription Factor COE3, Early B Cell Factor 3, EBF-3, Olf-1/EBF-like 2, O/E-2, OE-2, COE3) (MaxLight 405)
Product Gene Name	anti-EBF3 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	8D6
Host	Mouse
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified
Specificity	Recognizes human EBF3. Species Crossreactivity: mouse.
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	60,415 Da
OMIM	607407
3D Structure	ModBase 3D Structure for Q9H4W6
Immunogen	EBF3 (NP_001005463, 381-481aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Conjugate	MaxLight405
Product Categories/Family for anti-EBF3 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-EBF3 antibody	FLISA, Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-EBF3 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-EBF3 antibody	EBF3 (Early B-cell factor 3) belongs to the conserved Olf/EBF family of helix-loop-helix transcription factors, which regulate neurogenesis and differentiation. It recognizes variations of the palindromic sequence 5'-ATTCCCNNGGGAATT-3'. EBF3 is expressed in normal brain but is silenced in brain tumors suggesting that it may regulate a transcriptional program underlying a putative tumor suppression pathway.
Other Notes	Small volumes of anti-EBF3 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 EBF3 purchase	MBS6188385 is an antibody targeting EBF3. Also known as EBF3 (Transcription Factor COE3, Early B Cell Factor 3, EBF-3, Olf-1/EBF-like 2, O/E-2, OE-2, COE3) (MaxLight 405). Reactive in Human, Mouse. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EBF3. It may not necessarily be applicable to this product.

NCBI GI #	53828926
NCBI GeneID	253738
NCBI Accession #	NP_001005463
UniProt Primary Accession #	Q9H4W6
UniProt Secondary Accession #	Q5T6H9; Q9H4W5; A0AUY1
UniProt Related Accession #	Q9H4W6
GenBank Nucleotide #	NM_001005463.2
NCBI Official Full Name	transcription factor COE3
NCBI Official Synonym Full Names	early B-cell factor 3
NCBI Official Symbol	EBF3
NCBI Official Synonym Symbols	COE3; OE-2; EBF-3; O/E-2
UniProt Protein Name	Transcription factor COE3
UniProt Synonym Protein Names	Early B-cell factor 3; EBF-3; Olf-1/EBF-like 2; O/E-2; OE-2
Protein Family	Transcription factor
UniProt Gene Name	EBF3
UniProt Synonym Gene Names	COE3; EBF-3; O/E-2; OE-2
UniProt Entry Name	COE3_HUMAN
NCBI Protein Information	transcription factor COE3
NCBI Summary for EBF3	This gene encodes a member of the early B-cell factor (EBF) family of DNA binding transcription factors. EBF proteins are involved in B-cell differentiation, bone development and neurogenesis, and may also function as tumor suppressors. The encoded protein inhibits cell survival through the regulation of genes involved in cell cycle arrest and apoptosis, and aberrant methylation or deletion of this gene may play a role in multiple malignancies including glioblastoma multiforme and gastric carcinoma. [provided by RefSeq, Sep 2011]
UniProt Comments for EBF3	EBF3: Transcriptional activator which recognizes variations of the palindromic sequence 5'-ATTCCCNNGGGAATT-3'. Belongs to the COE family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 10q26.3 Cellular Component: nucleus Molecular Function: protein dimerization activity; DNA binding; metal ion binding Biological Process: transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; multicellular organismal development
Research Articles on EBF3	**1.** EBF3 tumor suppressor is epigenetically silenced and that it serves as an independent prognostic marker in gastric carcinoma.
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