TFAP2C Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TFAP2C, Monoclonal Antibody
Full Product Name	TFAP2C (Transcription Factor AP-2 gamma, AP2-gamma, Activating Enhancer-binding Protein 2 gamma, Transcription Factor ERF-1) (MaxLight 750)
Product Gene Name	anti-TFAP2C antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3C8
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human TFAP2C.
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: MaxLight750 conjugates are sensitive to light. For maximum recovery of proc centrifuge the original vial prior to removing the cap.
Molecular Weight	49kDa
OMIM	601602
3D Structure	ModBase 3D Structure for Q92754
Immunogen	Partial recombinant corresponding to aa341-451 from human TFAP2C (NP_003213) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	GRNEMAARKNMLLAAQQLCKEFTELLSQDRTPHGTSRLAPVLETNIQNCLSHFSLITHGFGSQAICAAVSALQNYIKEALIVIDKSYMNPGDQSPADSNKTL
Conjugate	MaxLight750
Product Categories/Family for anti-TFAP2C antibody	Antibodies; Binding Proteins
Applications Tested/Suitable for anti-TFAP2C antibody	FLISA, Western Blot (WB)
Application Notes for anti-TFAP2C antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-TFAP2C antibody	Transcription factor gene AP2-C (AP-2 gamma) belongs to a family of four closely related genes. The AP-2 transcription factor has been shown to play role in the development of tissues of ectodermal origin and has also been implicated in mammary oncogenesis. A physical and functional association b 2gamma transcription factor and the Wwox protein has been demonstrated. results suggest that Wwox tumor suppressor protein inhibits AP-2gamma c activity by sequestering it in the cytoplasm. P-2 gamma had been implicated in multiple functions during proliferation and differentiation based on its ex pattern in trophoblast, neural crest, and ectoderm cells in murine embryos. AP-2 gamma seems to be required in early embryonic development becaus the genetic programs controlling proliferation and differentiation of extraembryonic trophectodermal cells.
Other Notes	Small volumes of anti-TFAP2C antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece 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 TFAP2C purchase	MBS6235736 is an antibody targeting TFAP2C. Also known as TFAP2C (Transcription Factor AP-2 gamma, AP2-gamma, Activating Enhancer-binding gamma, Transcription Factor ERF-1) (MaxLight 750). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TFAP2C. It may not necessarily be applicable to this product.

NCBI GI #	4507445
NCBI GeneID	7022
NCBI Accession #	NP_003213
UniProt Primary Accession #	Q92754
UniProt Related Accession #	Q92754
GenBank Nucleotide #	NM_003222
NCBI Official Full Name	transcription factor AP-2 gamma
NCBI Official Synonym Full Names	transcription factor AP-2 gamma
NCBI Official Symbol	TFAP2C
NCBI Official Synonym Symbols	ERF1; TFAP2G; hAP-2g; AP2-GAMMA
UniProt Protein Name	Transcription factor AP-2 gamma
UniProt Synonym Protein Names	Activating enhancer-binding protein 2 gamma; Transcription factor ERF-1
Protein Family	Transcription factor
UniProt Gene Name	TFAP2C
UniProt Synonym Gene Names	AP2-gamma
UniProt Entry Name	AP2C_HUMAN
NCBI Protein Information	transcription factor AP-2 gamma
NCBI Summary for TFAP2C	The protein encoded by this gene is a sequence-specific DNA-binding transcription factor involved in the activation of several developmental genes. The encoded protein can act as either a homodimer or heterodimer with other family members and is induced during retinoic acid-mediated differentiation. It plays a role in the development of the eyes, face, body wall, limbs, and neural tube. [provided by RefSeq, Jul 2008]

UniProt Comments for TFAP2C	AP-2 gamma: Sequence-specific DNA-binding protein that interacts with inducible viral and cellular enhancer elements to regulate transcription of selected genes. AP-2 factors bind to the consensus sequence 5'-GCCNNNGGC-3' and activate genes involved in a large spectrum of important biological functions including proper eye, face, body wall, limb and neural tube development. They also suppress a number of genes including MCAM/MUC18, C/EBP alpha and MYC. Binds DNA as a dimer. Can form homodimers or heterodimers with other AP-2 family members. Interacts with WWOX. Interacts with CITED4. Interacts with UBE2I. Interacts with KCTD1; this interaction represses transcription activation. Interacts with CITED2 (via C-terminus); the interaction stimulates TFAP2B-transcriptional activity. During retinoic acid-mediated differentiation. Belongs to the AP-2 family. Protein type: Transcription factor; Motility/polarity/chemotaxis; DNA-binding Chromosomal Location of Human Ortholog: 20q13.2 Cellular Component: nucleus Molecular Function: protein dimerization activity; protein binding; DNA binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; somatic stem cell maintenance; male gonad development; sebaceous gland development; germ-line stem cell maintenance; negative regulation of transcription from RNA polymerase II promoter; regulation of gene expression, epigenetic; trophectodermal cell differentiation; regulation of cell proliferation; regulation of transcription from RNA polymerase II promoter; hair follicle development; cell-cell signaling; positive regulation of transcription from RNA polymerase II promoter; forebrain neuron fate commitment; cerebral cortex development; regulation of epidermis development
Research Articles on TFAP2C	**1.** Study discovered a novel enhancer HER2 gene body enhancer (HGE) in the 3' gene body of HER2. The HGE activates promoters 1 and 2 in trans., and hence the TFAP2C-mediated transcriptional induction of HER2 expression in breast cancer samples.
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