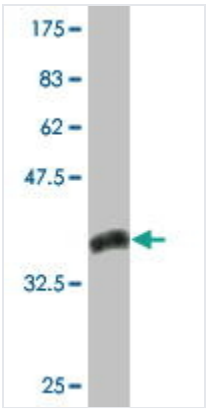
KLF12 Antibody – Mouse Monoclonal

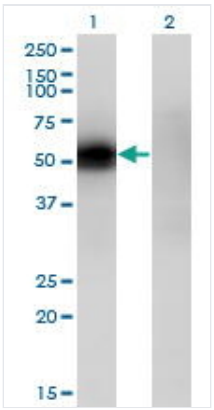
PRODUCT OVERVIEW

Product Name	KLF12, Monoclonal Antibody
Full Product Name	KLF12 (AP2REP, Krueppel-like Factor 12, Transcriptional Repressor AP-2rep, HSPC122) (AP)
Product Gene Name	anti-KLF12 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3D2
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human KLF12.
Preparation and Storage	Store product at 4 degree C. 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. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	46.6 kDa (425aa)
OMIM	607531
3D Structure	ModBase 3D Structure for Q9Y4X4
Immunogen	Partial recombinant corresponding to aa1-91 from KLF12 (NP_009180) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MNIHMKRKTIKNINTFENRMLMLDGMPAVRVKTELLESEQGSPNVHNYPDMEAVPLLLNNVKGEPPEDSLSVDHFQTQTEPVDLSINKAR*
Conjugate	AP
Product Categories/Family for anti-KLF12 antibody	Antibodies; Transcription Factors
Applications Tested/Suitable for anti-KLF12 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-KLF12 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-KLF12 antibody	Activator protein-2 alpha (AP-2 alpha) is a developmentally-regulated transcription factor and important regulator of gene expression during vertebrate development and carcinogenesis. The protein encoded by this gene is a member of the Kruppel-like zinc finger protein family and can repress expression of the AP-2 alpha gene by binding to a specific site in the AP-2 alpha gene promoter. Repression by the encoded protein requires binding with a corepressor, CtBP1. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].
Other Notes	Small volumes of anti-KLF12 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 KLF12 purchase	MBS6132004 is an antibody targeting KLF12. Also known as KLF12 (AP2REP, Krueppel-like Factor 12, Transcriptional Repressor AP-2rep, HSPC122) (AP). Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-KLF12 antibody
Western Blot detection against Immunogen (36.01kD).



Western Blot (WB) of anti-KLF12 antibody
Western Blot analysis of KLF12 expression in transfected 293T cell line by KLF12 monoclonal antibody. Lane 1: KLF12 transfected lysate (44.2kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLF12. It may not necessarily be applicable to this product.

NCBI GI #	21071074
NCBI GeneID	11278
NCBI Accession #	NP_009180
UniProt Primary Accession #	Q9Y4X4
UniProt Secondary Accession #	Q5VZM7; Q9UHZ0; A8K5T2; L0R3J4
UniProt Related Accession #	Q9Y4X4
GenBank Nucleotide #	NM_007249
NCBI Official Full Name	Krueppel-like factor 12
NCBI Official Synonym Full Names	Kruppel like factor 12
NCBI Official Symbol	KLF12
NCBI Official Synonym Symbols	AP2REP; AP-2rep; HSPC122
UniProt Protein Name	Krueppel-like factor 12
UniProt Synonym Protein Names	Transcriptional repressor AP-2rep
Protein Family	Krueppel-like factor
UniProt Gene Name	KLF12
UniProt Synonym Gene Names	AP2REP
UniProt Entry Name	KLF12_HUMAN
NCBI Protein Information	Krueppel-like factor 12
NCBI Summary for KLF12	Activator protein-2 alpha (AP-2 alpha) is a developmentally-regulated transcription factor and important regulator of gene expression during vertebrate development and carcinogenesis. The protein encoded by this gene is a member of the Kruppel-like zinc finger protein family and can repress expression of the AP-2 alpha gene by binding to a specific site in the AP-2 alpha gene promoter. Repression by the encoded protein requires binding with a corepressor, CtBP1. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for KLF12	KLF12: Confers strong transcriptional repression to the AP-2- alpha gene. Binds to a regulatory element (A32) in the AP-2-alpha gene promoter. Belongs to the Sp1 C2H2-type zinc-finger protein family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; C2H2-type zinc finger protein; DNA-binding Chromosomal Location of Human Ortholog: 13q22 Cellular Component: nucleus Molecular Function: DNA binding; metal ion binding; transcription corepressor activity; transcription factor activity Biological Process: regulation of transcription from RNA polymerase II promoter; transcription, DNA-dependent; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription from RNA polymerase II promoter
Research Articles on KLF12	**1.** Data indicate Kruppel-like factor 12 protein (KLF12) as a metastasis-suppressor gene whose loss of function is associated with anoikis resistance through control of the cell cycle.
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