

Mouse anti-Human KLF4 Monoclonal Antibody | anti-KLF4 antibody

KLF4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283530	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, ELISA, Western Blot

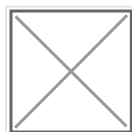
PRODUCT SYNONYMS

KLF4; Monoclonal Antibody; KLF4 Antibody; Krueppel-like factor 4; Epithelial zinc finger protein EZF; Gut-enriched krueppel-like factor; EZF; GKLF; anti-KLF4 antibody

PRODUCT SPECIFICATIONS

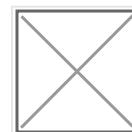
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	56CT5.1.6
Specificity	KLF4 recombinant protein is used to produce this monoclonal antibody.
Purity/Purification	Purified Mouse Monoclonal Antibody (Mab)
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Length	479
Applicable Applications for anti-KLF4 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ELISA, WB (Western Blot)
Antigen Type	Recombinant Protein
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence analysis of KLF4 antibody, AAA283530 (5 ug/ml). HeLa cells transfected with pMX constructs of human KLF4 (top) and NIH3T3 cells transfected with pMX constructs of mouse KLF4 (bottom) were analyzed at approximately 62 hours after transfection.



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of MCF-7 cells using KLF4 Monoclonal Antibody (bottom histogram) compared to a negative control cell (top histogram). PE-conjugated goat-anti-mouse secondary antibodies were used for the analysis.



WB (Western Blot)

Western blot analysis of lysates with KLF4 protein, using KLF4 Antibody. AAA283530 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

ADDITIONAL INFORMATION

Product Categories/Family for anti-KLF4 antibody	Cancer; Cardiovascular; Developmental Biology; Neuroscience; Signal Transduction
References	MCC-555-induced NAG-1 expression is mediated in part by KLF4. Cekanova M, et al. Eur J Pharmacol, 2010 Jul 10. PMID 20385121. Kruppel-like factor 4 inhibits epithelial-to-mesenchymal transition through regulation of E-cadherin gene expression. Yori JL, et al. J Biol Chem, 2010 May 28. PMID 20356845. MicroRNA-10b promotes migration and invasion through KLF4 in human esophageal cancer cell lines. Tian Y, et al. J Biol Chem, 2010 Mar 12. PMID 20075075. Genetic and epigenetic inactivation of Kruppel-like factor 4 in medulloblastoma. Nakahara Y, et al. Neoplasia, 2010 Jan. PMID 20072650. Kruppel-like factor 4 (Klf4) prevents embryonic stem (ES) cell differentiation by regulating Nanog gene expression. Zhang P, et al. J Biol Chem, 2010 Mar 19. PMID 20071344.

NCBI AND UNIPROT INFORMATION

NCBI GI #	194248077
NCBI GeneID	9314
NCBI Accession #	NP_004226.3
NCBI GenBank Nucleotide #	NM_004235.4
UniProt Accession #	O43474; P78338; Q5T3J8; Q5T3J9; Q8N717; Q9UNP3; B2R8S4; B3KT79; L0R3I6; L0R4N5
Molecular Weight	54671
NCBI Official Full Name	Krueppel-like factor 4
NCBI Official Synonym Full Names	Kruppel-like factor 4 (gut)
NCBI Official Symbol	KLF4
NCBI Official Synonym Symbols	EZF; GKLF
NCBI Protein Information	Krueppel-like factor 4
UniProt Protein Name	Krueppel-like factor 4
UniProt Gene Name	KLF4
UniProt Synonym Gene Names	EZF; GKLF
UniProt Entry Name	KLF4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/klf4-antibody-clone-56ct5-1-6-flow-cytometry-immunofluorescence-western-blot-elisa/283530>