

Rabbit anti-Human, mouse KLF4 Polyclonal Antibody | anti-KLF4 antibody

KLF4 Antibody (N-term C74)

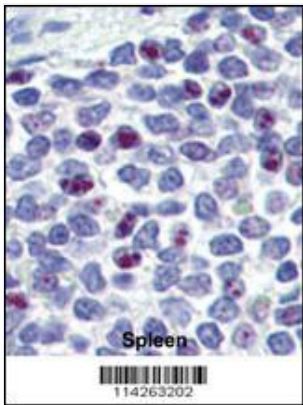
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28755	Rabbit	Human, mouse	Western Blot, ELISA, Immunofluorescence, Immunohistochemistry

PRODUCT SYNONYMS

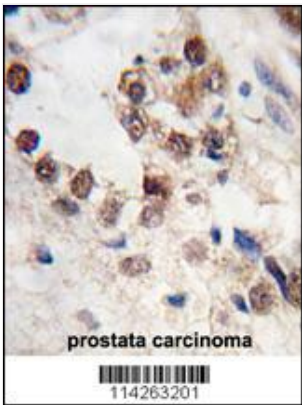
KLF4; Polyclonal Antibody; KLF4 Antibody (N-term C74); Krueppel-like factor 4; Epithelial zinc finger protein EZF; Gut-enriched krueppel-like factor; EZF; GKLF; anti-KLF4 antibody

PRODUCT SPECIFICATIONS

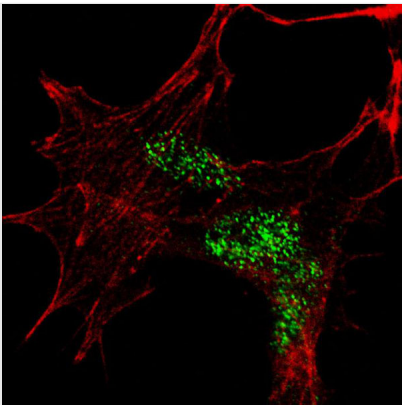
Host	Rabbit
Reactivity	Human, mouse
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This KLF4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 69-101 amino acids from the N-terminal region of human KLF4.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	69-101
Sequence Length	479
Applicable Applications for anti-KLF4 antibody	WB (Western Blot), ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	WB~~1:1000
Antigen Type	Synthetic Peptide
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.



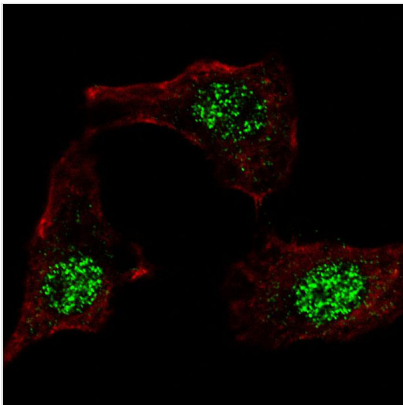
IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human Spleen tissue reacted with KLF4 antibody (N-term C74) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



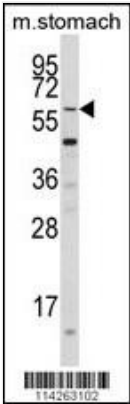
IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human prostate carcinoma tissue reacted with KLF4 antibody (N-term C74) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



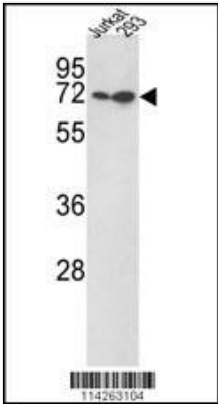
IF (Immunofluorescence)
Fluorescent confocal image of SY5Y cells stained with AAA28755 KLF4 (N-term C74) antibody. SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min), then incubated with AAA28755 KLF4 (N-term C74) primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (5.25 uM, 25 min). KLF4 immunoreactivity is localized to the nuclei in SY5Y cells.



IF (Immunofluorescence)
Fluorescent confocal image of HeLa cells stained with AAA28755 KLF4 (N-term C74) antibody. HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min), then incubated with AAA28755 KLF4 (N-term C74) primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (5.25 uM, 25 min). KLF4 immunoreactivity is localized to the nuclei in HeLa cells.



WB (Western Blot)
Western blot analysis of KLF4 Antibody (N-term C74) in mouse stomach tissue lysates (35ug/lane). KLF4 (arrow) was detected using the purified Pab.



WB (Western Blot)
Western blot analysis of KLF4 Antibody (N-term C74) in Jurkat,293 cell line lysates (35ug/lane).KLF4 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-KLF4 antibody	Transcription factor; can act both as activator and as repressor. Binds the 5'-CACCC-3' core sequence. Binds to the promoter region of its own gene and can activate its own transcription. Regulates the expression of key transcription factors during embryonic development. Plays an important role in maintaining embryonic stem cells, and in preventing their differentiation. Required for establishing the barrier function of the skin and for postnatal maturation and maintenance of the ocular surface. Involved in the differentiation of epithelial cells and may also function in skeletal and kidney development. Contributes to the down-regulation of p53/TP53 transcription.
Product Categories/Family for anti-KLF4 antibody	Cancer; Cardiovascular; Developmental Biology; Neuroscience; Signal Transduction
References	Alder,J.K., J. Immunol. 180 (8), 5645-5652 (2008) Natesampillai,S., Am. J. Physiol. Endocrinol. Metab. 294 (2), E385-E391 (2008) Evans,P.M., J. Biol. Chem. 282 (47), 33994-34002 (2007) Behr,R., Mol. Hum. Reprod. 13 (11), 815-820 (2007)

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/polyclonal/klf4-antibody-western-blot-immunofluorescence-immunohistochemistry-elisa/28755>