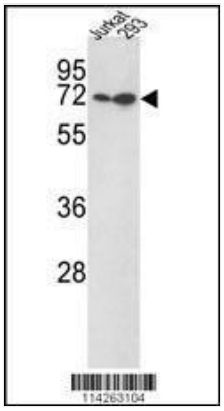
KLF4 Antibody – Rabbit Polyclonal

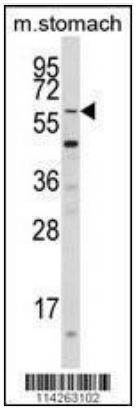
PRODUCT OVERVIEW

Product Name	KLF4, Polyclonal Antibody
Full Product Name	KLF4, NT (C74) (KLF4, EZF, GKLF, Krueppel-like factor 4, Epithelial zinc finger protein EZF, Gut-enriched krueppel-like factor) (MaxLight 405)
Product Gene Name	anti-KLF4 antibody
Product Synonym Names	KLF4; EZF; GKLF; Krueppel-like factor 4; Epithelial zinc finger protein EZF; Gut-enriched krueppel-like factor
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
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	58.1 kDa (545aa)
OMIM	602253
3D Structure	ModBase 3D Structure for O43474
Immunogen	KLF4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 68~98 amino acids from the N-terminal region of human KLF4.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-KLF4 antibody	Antibodies; Transcription Factors; Zinc (Ring) Finger
Applications Tested/Suitable for anti-KLF4 antibody	Immunohistochemistry (IHC), FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-KLF4 antibody	IHC: 1:10-50 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-KLF4 antibody	Kr¸ppel-like factor 4 (KLF4) is a transcription factor involved in both proliferation and differentiation in the colon. It is down-regulated in both mouse and human colonic adenomas and has been implicated as a tumor suppressor in the gut, whereas in breast cancer, KLF4 is an oncogene. KLF4 is also involved in reprogramming differentiated cells into pluripotent stem cells. KLF4 can act as a transcriptional activator or repressor, but the underlying mechanisms are poorly understood.
Product References and Citations for anti-KLF4 antibody	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).

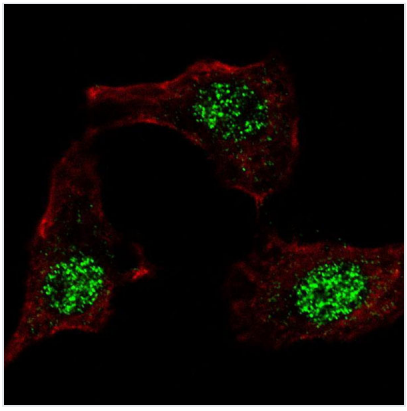
Other Notes	Small volumes of anti-KLF4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KLF4 purchase	MBS6314012 is an antibody targeting KLF4. Also known as KLF4, NT (C74) (KLF4, EZF, GKLF, Krueppel-like factor 4, Epithelial zinc finger protein EZF, Gut-enriched krueppel-like factor) (MaxLight 405). Reactive in Human, Mouse. Host: Rabbit.



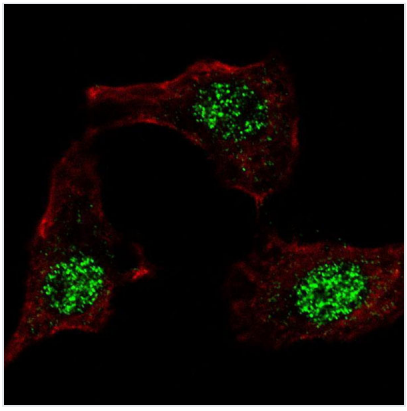
Western Blot (WB) of anti-KLF4 antibody
Western blot analysis of KLF4 Antibody (N-term C74) in Jurkat,293 cell line lysates (35ug/lane).KLF4 (arrow) was detected using the purified Pab.



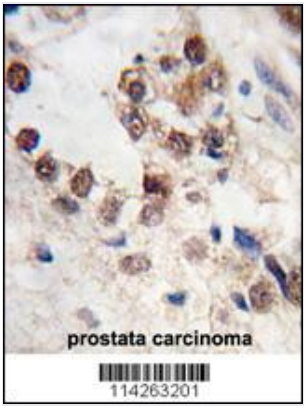
Western Blot (WB) of anti-KLF4 antibody
Western blot analysis of KLF4 Antibody (N-term C74) in mouse stomach tissue lysates (35ug/lane). KLF4 (arrow) was detected using the purified Pab.



Immunofluorescence (IF) of anti-KLF4 antibody
Fluorescent confocal image of HeLa cells stained with AP2725a 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 AP2725a 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.



Immunofluorescence (IF) of anti-KLF4 antibody
Fluorescent confocal image of SY5Y cells stained with AP2725a 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 AP2725a 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.



Immunofluorescence (IF) of anti-KLF4 antibody
Fluorescent confocal image of SY5Y cells stained with AP2725a 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 AP2725a 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KLF4. It may not necessarily be applicable to this product.

NCBI GI #	194248077
NCBI GeneID	9314
NCBI Accession #	NP_004226
UniProt Primary Accession #	O43474
UniProt Secondary Accession #	P78338; Q5T3J8; Q5T3J9; Q8N717; Q9UNP3; B2R8S4; B3KT79; L0R3I6; L0R4N5
UniProt Related Accession #	O43474
GenBank Nucleotide #	NM_004235.5
NCBI Official Full Name	Krueppel-like factor 4 isoform 2
NCBI Official Synonym Full Names	Kruppel like factor 4
NCBI Official Symbol	KLF4
NCBI Official Synonym Symbols	EZF; GKLF
UniProt Protein Name	Krueppel-like factor 4
UniProt Synonym Protein Names	Epithelial zinc finger protein EZF; Gut-enriched krueppel-like factor
Protein Family	Krueppel-like factor
UniProt Gene Name	KLF4
UniProt Synonym Gene Names	EZF; GKLF
UniProt Entry Name	KLF4_HUMAN
NCBI Protein Information	Krueppel-like factor 4
NCBI Summary for KLF4	This gene encodes a protein that belongs to the Kruppel family of transcription factors. The encoded zinc finger protein is required for normal development of the barrier function of skin. The encoded protein is thought to control the G1-to-S transition of the cell cycle following DNA damage by mediating the tumor suppressor gene p53. Mice lacking this gene have a normal appearance but lose weight rapidly, and die shortly after birth due to fluid evaporation resulting from compromised epidermal barrier function. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]

Research Articles on KLF4	**1.** Data suggest that KLF4 could promote cell senescence through a complex network: miR-203, survivin, and p21, which were all regulated by overexpression of KLF4 and contributed to cell senescence.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-antibody/klf4/6314012