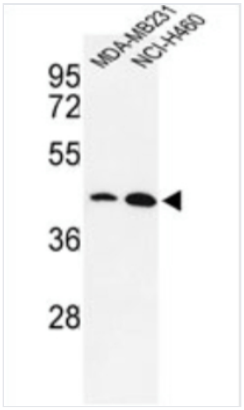
KLF4 Antibody – Rabbit Polyclonal

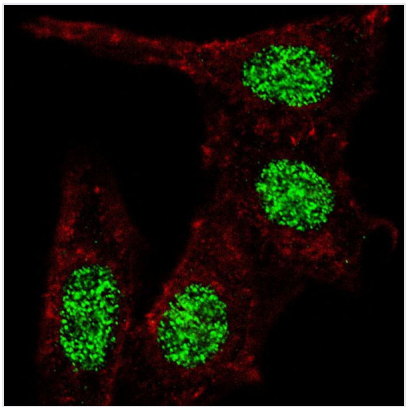
PRODUCT OVERVIEW

Product Name	KLF4, Polyclonal Antibody
Full Product Name	KLF4 (S457) (KLF4, EZF, GKLF, Krueppel-like factor 4, Epithelial zinc finger protein EZF, Gut-enriched krueppel-like factor) (FITC)
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
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human KLF4.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	51kDa
Chromosome Location	Chromosome: 9; NC_000009.11 (110247133..110252047, complement). Location: 9q31
OMIM	602253
3D Structure	ModBase 3D Structure for O43474
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 481-504 of human KLF4, UniProt Accession #O43474; Q9Y5W3. Species sequence homology: mouse, rat
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-KLF4 antibody	Antibodies; Transcription Factors; Zinc (Ring) Finger
Applications Tested/Suitable for anti-KLF4 antibody	Western Blot (WB), Immunofluorescence (IF), FLISA
Application Notes for anti-KLF4 antibody	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.

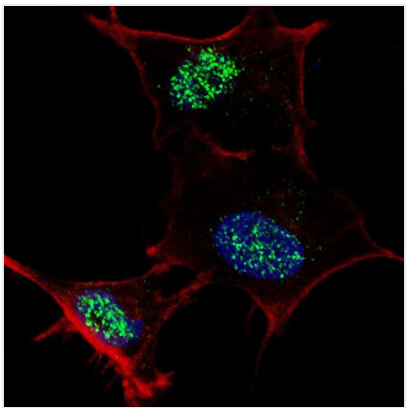
Product References and Citations for anti-KLF4 antibody	1. Alder, J.K., J. Immunol. 180 (8), 5645-5652 (2008). 2. Natesampillai, S., Am. J. Physiol. Endocrinol. Metab. 294 (2), E385-E391 (2008). 3. Evans, P.M., J. Biol. Chem. 282 (47), 33994-34002 (2007). 4. Behr, R., Mol. Hum. Reprod. 13 (11), 815-820 (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	MBS6313977 is an antibody targeting KLF4. Also known as KLF4 (S457) (KLF4, EZF, GKLF, Krueppel-like factor 4, Epithelial zinc finger protein EZF, Gut-enriched krueppel-like factor) (FITC). Reactive in Human. Host: Rabbit.



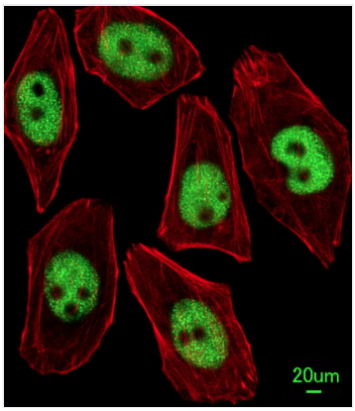
Western Blot (WB) of anti-KLF4 antibody
Western Blot analysis in MDA-MB231, NCI-H460 cell line lysates (35ug/lane) using 037528. KLF4 (arrow) was detected using 037528.



Immunofluorescence (IF) of anti-KLF4 antibody
Fluorescent confocal image of HeLa cells stained with 037528. HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min), then incubated with 037528 (1:100, 2h at RT). 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 (5.25uM, 25 min). Note the highly specific localization of the phosphorylated KLF4 immunoreactivity to the nuclei but not the cytoplasm.



Immunofluorescence (IF) of anti-KLF4 antibody
Fluorescent confocal image of SY5Y cells stained with 037528. SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min), then incubated with 037528 (1:100, 2h at RT). 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 (5.25uM, 25 min). Note the highly specific localization of the phosphorylated KLF4 immunoreactivity to the nuclei.



Immunofluorescence (IF) of anti-KLF4 antibody
Immunofluorescent analysis of U251 cells, using 037528. 037528 was diluted at 1:25 dilution. Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Dylight Fluor 554 (red) conjugated Phalloidin (red).

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_004226.3
UniProt Primary Accession #	O43474

UniProt Secondary Accession #	P78338; Q5T3J8; Q5T3J9; Q8N717; Q9UNP3; B2R8S4; B3KT79; L0R3I6; L0R4N5
UniProt Related Accession #	O43474
GenBank Nucleotide #	NM_004235.4
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
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; gut-enriched krueppel-like factor; epithelial zinc finger protein EZF; endothelial Kruppel-like zinc finger protein
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-antibody/klf4/6313977