

Product datasheet for **TA326715**

KLF4 Mouse Monoclonal Antibody [Clone ID: 4E5C3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4E5C3
Applications:	ELISA, WB
Recommended Dilution:	KLF4 antibody can be used for detection of KLF4 by Western blot at 1 µg/mL. Antibody validated: Western Blot in mouse samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	KLF4 antibody was raised against a 20 amino acid synthetic peptide near the carboxy terminus of human KLF4.
Specificity:	At least three isoforms of KLF4 are known to exist; this antibody will detect all three. KLF4 antibody will not cross-react with other Kruppel-like family members.
Formulation:	KLF4 Monoclonal Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	KLF4 Monoclonal Antibody is Protein A purified.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	Kruppel-like factor 4 (gut)
Database Link:	AAH30811 Entrez Gene 9314 Human O43474



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Background:

KLF4 Monoclonal Antibody: KLF4 is a transcription factor that functions as both a transcriptional activator and repressor to regulate proliferation and differentiation of multiple cell types. The role of KLF4 in embryonic development suggested that it might be useful in the creation of stem cells that might be useful in cell replacement therapies in the treatment of several degenerative diseases. Artificial stem cells, termed induced pluripotent stem (iPS) cells, can be created by expressing KLF4 and the transcription factors POU5F1, Sox2, and Lin28 along with c-Myc in mouse fibroblasts. More recently, experiments have demonstrated that iPS cells could be generated using expression plasmids expressing KLF4, Sox2, POU5F1 and c-Myc, eliminating the need for virus introduction, thereby addressing a safety concern for potential use of iPS cells in regenerative medicine. KLF4 interacts directly with POU5F1 and Sox2 in iPS and ES cells and activates the target gene NANOG.

Synonyms:

EZF; GKLF