



Anti-KLF4 monoclonal antibody, clone 5H7F22 (DCABH-15873)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.
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.
Immunogen	A synthetic peptide corresponding to 20 amino acids at C-terminus of human KLF4.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat
Clone	5H7F22
Purification	Peptide affinity purification
Conjugate	Unconjugated
Applications	Western Blot (Tissue lysate); ELISA
Format	Liquid
Concentration	1 mg/mL

Buffer	In PBS (0.02% sodium azide)
Preservative	0.02% Sodium Azide
Storage	Store at -20°C, stable for one year.

GENE INFORMATION

Gene Name	KLF4 Kruppel-like factor 4 (gut) [Homo sapiens]
Official Symbol	KLF4
Synonyms	KLF4; Kruppel-like factor 4 (gut); Krueppel-like factor 4; EZF; GKLF; gut-enriched krueppel-like factor; epithelial zinc finger protein EZF; endothelial Kruppel-like zinc finger protein;
Entrez Gene ID	9314
Protein Refseq	NP_004226
UniProt ID	O43474
Chromosome Location	9q31
Pathway	Developmental Biology, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Regulation of Wnt-mediated beta catenin signaling and target gene transcription, organism-specific biosystem; Synthes
Function	DNA binding; RNA polymerase II core promoter proximal region sequence-specific DNA binding transcription factor activity involved in positive regulation of transcription; RNA polymerase II transcription factor binding; RNA polymerase II transcription factor binding; RNA polymerase II transcription factor binding; RNA polymerase II transcription factor binding transcription factor activity involved in positive regulation of transcription; core promoter proximal region sequence-specific DNA binding; double-stranded DNA binding; metal ion binding; phosphatidylinositol 3-kinase regulator activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; sequence-specific DNA binding transcription factor recruiting transcription factor activity; sequence-specific DNA binding transcription factor recruiting transcription factor activity; transcription regulatory region DNA binding; transcription regulatory region DNA binding; zinc ion binding;