

KLF10 Rabbit pAb

Catalog # AP99914

Product Information

Primary Accession	Q13118
Other Accession	Q13118
Reactivity	Human
Predicted	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52555
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TIEG1
Epitope Specificity	401-480/480
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the Sp1 C2H2-type zinc-finger protein family. Contains 3 C2H2-type zinc fingers.
Post-translational modifications	Ubiquitinated; mediated by SIAH1 and leading to its subsequent proteasomal degradation (Probable).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	KLF10 is a transcription factor that plays a role in the regulation of cell growth. It binds to the consensus sequence 5'-GGTGTG-3'. KLF10 plays a role in the response to TGFbeta (through the TGFbeta/Smad signalling pathway) and estrogen. In both cases, KLF10 induces or repressed gene transcription to enhance the TGFbeta/Smad signalling pathway, as well as other pathways, to regulate cell proliferation, differentiation and apoptosis. KLF10 has been shown to have a role in skeletal disease (osteopenia/osteoporosis), hypertrophic cardiomyopathy, and breast and prostate cancer.

Additional Information

Gene ID	7071
Other Names	EGR-alpha; EGRA; TIEG; TIEG1; EGR[a]; Egral; Gdnfif; TIEG-1; mGIF; KLF10_HUMAN; KLF10; Transforming growth factor-beta-inducible early growth response protein 1 (TGFB-inducible early growth response protein 1 TIEG-1); KLF10_MOUSE; GDNF-inducible factor; Transcription factor GIF (mGIF); KLF10_RAT; Zinc finger transcription factor homolog CPG20; Cpg20; KLF transcription factor 10; TGFB inducible early growth response; Kruppel like factor 10; early growth response alpha
Dilution	ICC/IF=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	KLF10
Synonyms	TIEG, TIEG1
Function	Transcriptional repressor which binds to the consensus sequence 5'-GGTGTG-3'. Plays a role in the regulation of the circadian clock; binds to the GC box sequence in the promoter of the core clock component ARTNL/BMAL1 and represses its transcriptional activity. Regulates the circadian expression of genes involved in lipogenesis, gluconeogenesis, and glycolysis in the liver. Represses the expression of PCK2, a rate-limiting step enzyme of gluconeogenesis (By similarity). May play a role in the cell cycle regulation.
Cellular Location	Nucleus {ECO:0000250 UniProtKB:O89091}.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.