10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KLF9 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16249A

Product Information

Application	WB, IF, E
Primary Accession	Q13886
Other Accession	Q01713, P79288, O35739, NP_001197.1
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35340
Calculated MW	27235
Antigen Region	29-57

Additional Information

Gene ID	687
Other Names	Krueppel-like factor 9, Basic transcription element-binding protein 1, BTE-binding protein 1, GC-box-binding protein 1, Transcription factor BTEB1, KLF9, BTEB, BTEB1
Target/Specificity	This KLF9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 29-57 amino acids from the N-terminal region of human KLF9.
Dilution	WB~~1:1000 IF~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	KLF9 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	KLF9
Synonyms	BTEB, BTEB1

Function	Transcription factor that binds to GC box promoter elements. Selectively activates mRNA synthesis from genes containing tandem repeats of GC boxes but represses genes with a single GC box. Acts as an epidermal circadian transcription factor regulating keratinocyte proliferation (PubMed:22711835).
Cellular Location	Nucleus.
Tissue Location	Epidermis (at protein level).

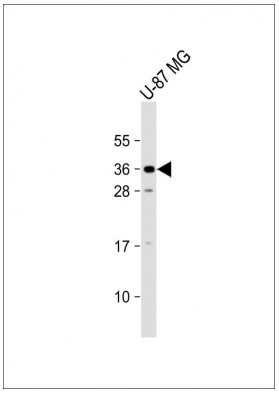
Background

The protein encoded by this gene is a transcription factor that binds to GC box elements located in the promoter. Binding of the encoded protein to a single GC box inhibits mRNA expression while binding to tandemly repeated GC box elements activates transcription.

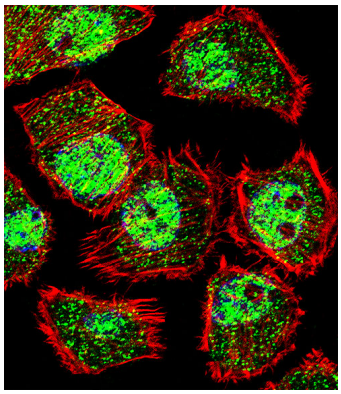
References

Du, H., et al. Biol. Reprod. 83(2):205-211(2010)
Pabona, J.M., et al. Endocrinology 151(7):3396-3406(2010)
Gamper, I., et al. Exp. Hematol. 37(5):539-548(2009)
Kang, L., et al. Pathol. Int. 58(6):334-338(2008)
Simmen, F.A., et al. Reprod. Biol. Endocrinol. 6, 41 (2008) :

Images



Anti-KLF9 Antibody (N-term) at 1:2000 dilution + U-87 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 27 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Fluorescent confocal image of U251 cell stained with KLF9 Antibody (N-term)(Cat#AP16249a).U251 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with KLF9 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37°C).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37°C). Nuclei were counterstained with DAPI (blue) (10 µg/ml, 10 min). KLF9 immunoreactivity is localized to vesicles and Nucleus significantly.