

Datasheet for ABIN3044106
anti-KLF5 antibody (Middle Region)



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1 Image

Overview

Quantity:	100 µg
Target:	KLF5
Binding Specificity:	AA 109-126, Middle Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KLF5 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Krueppel-like factor 5 KLF5 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human KLF5, identical to the related rat and mouse sequences.
Sequence:	HKKYRRDSAS VVDQFFTD
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Krueppel-like factor 5 KLF5 Antibody (ABIN3044106). Tested in WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: KLF5

Alternative Name: KLF5 ([KLF5 Products](#))

Background: Synonyms: Krueppel-like factor 5,Basic transcription element-binding protein 2,BTE-binding protein 2,Colon krueppel-like factor,GC-box-binding protein 2,Intestinal-enriched krueppel-like factor,Transcription factor BTEB2,KLF5,BTEB2, CKLF, IKLF,
Tissue Specificity: Expressed only in testis and placenta.
Background: KLF5 (Krueppel-like factor 5) is a protein that in humans is encoded by the KLF5 gene. It is also known as BASIC TRANSCRIPTION ELEMENT-BINDING PROTEIN 2 or BTEB2. This gene encodes a member of the Kruppel-like factor subfamily of zinc finger proteins. Suske et al. (2005)stated that the human KLF5 gene maps to chromosome 13q21.33, and the mouse Klf5 gene to chromosome 14E2.1. Sogawa et al. (1993)isolated a cDNA encoding BTEB2. The predicted 219-amino acid protein contains 3 consecutive zinc finger motifs near the C terminus. The zinc finger domains were 59 % and 64 % identical to those of Sp1 (189906) and BTEB1, respectively. Both BTEB2 and Sp1 have a short basic region preceding the zinc finger motifs that may play an auxiliary role in DNA binding. The N-terminal region of BTEB2 is proline rich. Recombinant BTEB2 protein and Sp1 showed very similar DNA-binding specificity in vitro. When expressed in mammalian cells, BTEB2 activated the transcription of a < a href="https://www.bosterbio.com/cells/reporter-cell-lines" style="color:#ea8d28">reporter gene fused to a GC box-containing promoter. Sogawa et al. (1993) also identified the rat BTEB2 homolog. Northern blot analysis of rat tissues revealed that BTEB2 is expressed only in the testis and placenta.
Sequence Similarities: Belongs to the krueppel C2H2-type zinc-finger protein family.

Molecular Weight: 60 kDa

UniProt: [Q13887](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human
1. Oishi, Y., Manabe, I., Tobe, K., Tsushima, K., Shindo, T., Fujiu, K., Nishimura, G., Maemura, K., Yamauchi, T., Kubota, N., Suzuki, R., Kitamura, T., Akira, S., Kadowaki, T., Nagai, R.Kruppel-like transcription factor KLF5 is a key regulator of adipocyte differentiation.Cell Metab. 1: 27-39,

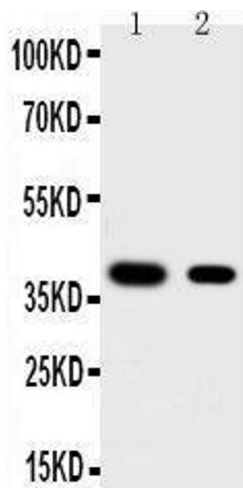
Application Details

2005. 2. Shindo, T., Manabe, I., Fukushima, Y., Tobe, K., Aizawa, K., Miyamoto, S., Kawai-Kowase, K., Moriyama, N., Imai, Y., Kawakami, H., Nishimatsu, H., Ishikawa, T., and 10 others. Kruppel-like zinc-finger transcription factor KLF5/BTEB2 is a target for angiotensin II signaling and an essential regulator of cardiovascular remodeling. *Nature Med.* 8: 856-863, 2002. 3. Sogawa, K., Imataka, H., Yamasaki, Y., Kusume, H., Abe, H., Fujii-Kuriyama, Y. cDNA cloning and transcriptional properties of a novel GC box-binding protein, BTEB2. *Nucleic Acids Res.* 21: 1527-1532, 1993.

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Expiry Date:	12 months



Western Blotting

Image 1. Anti-KLF5 antibody, Western blotting Lane 1: HELA Cell Lysate Lane 2: MCF-7 Cell Lysate