

# Anti-KLF5 Antibody

Catalog # ABO11195

#### Specification

## Anti-KLF5 Antibody - Product Information

ApplicationWBPrimary Accession013887HostRabbitReactivityHuman, Mouse, RatClonalityPolyclonalFormatLyophilizedDescriptionRabbit IgG polyclonal antibody for Krueppel-like factor 5(KLF5) detection. Tested with WB inHuman;Mouse;Rat.Human;Mouse;Rat.

**Reconstitution** Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

#### Anti-KLF5 Antibody - Additional Information

Gene ID 688

**Other Names** 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

Calculated MW 50792 MW KDa

**Application Details** Western blot, 0.1-0.5 μg/ml, Human, Mouse, Rat<br>

Subcellular Localization Nucleus .

**Tissue Specificity** Expressed only in testis and placenta.

**Protein Name** Krueppel-like factor 5

**Contents** Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human KLF5(109-126aa HKKYRRDSASVVDQFFTD), identical to the related rat and mouse sequences.



**Purification** Immunogen affinity purified.

**Cross Reactivity** No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Sequence Similarities Belongs to the krueppel C2H2-type zinc-finger protein family.

## Anti-KLF5 Antibody - Protein Information

Name KLF5

Synonyms BTEB2, CKLF, IKLF

**Function** Transcription factor that binds to GC box promoter elements. Activates the transcription of these genes.

**Cellular Location** Nucleus.

**Tissue Location** Expressed only in testis and placenta.

#### Anti-KLF5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

# Anti-KLF5 Antibody - Images





Anti-KLF5 antibody, ABO11195, Western blottingLane 1: HELA Cell LysateLane 2: MCF-7 Cell Lysate

## Anti-KLF5 Antibody - 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 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.