

Anti-HBP1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse (predicted:Rat,Monkey)
Molecular Weight:	Theoretical: 58 kDa. Actual: 58 kDa.
Purification:	Protein A purified

Applications

1. Protein: intestine (mouse) lysates at 40 µg;
Primary: Anti-HBP1 (TMAB-06903) at 1: 200;
Secondary: HRP conjugated Goat Anti-Rabbit IgG at 1: 3000;
ECL excited the fluorescence;
Predicted band size: 58 kD
Observed band size: 58 kD

2. Sample:

placenta (mouse) Lysate at 40 µg
Uterus (Mouse) Lysate at 40 µg
bone (Mouse) Lysate at 40 µg
Primary: Anti-HBP1 (TMAB-06903) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 58 kD

Verified Activity: Observed band size: 63 kD

3. Sample:

Lane 1: Human Hela cell lysates
Lane 2: Human MCF-7 cell lysates
Lane 3: Human THP-1 cell lysates
Primary: Anti-HBP1 (TMAB-06903) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 58 kD
Observed band size: 60 kD

4. Paraformaldehyde-fixed, paraffin embedded (Mouse intestine); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (HBP1) Polyclonal Antibody, Unconjugated (TMAB-06903) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

Application: WB,IHC-P,IHC-Fr,IF

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

A DRUG SCREENING EXPERT

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human HBP1

Antigen Species: Human

Gene ID: 26959

Uniprot ID: O60381

Research Background

HBP1 is a member of the HMG family of transcription factors, which are characterized by the presence of a conserved protein motif, the high mobility group (HMG) 1 box, that mediates DNA binding. HBP-1 binds to the tumor suppressor proteins Rb and p130 and initiates cell cycle arrest. Terminal cell differentiation requires this initial cell cycle arrest followed by the coordinated expression of genes defined as tissue-specific markers. Along with initiating the commitment to cell differentiation, the continued activity of HBP1 abrogates the expression of tissue-specific genes by associating with the MyoD proteins. In muscle cell differentiation, the MyoD family of transcription factors, which include Myf5, MyoD and myogenin, induce the expression of these cell-type specific proteins and contribute to the development of cell phenotypes. The progression of terminal differentiation is, therefore, dependent on both a decrease in HBP1 activity and the corresponding activation of MyoD-induced gene transcription.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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