SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-HBP1 antibody

Catalog Number: SL15418R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	HBP1
Immunogen:	KLH conjugated synthetic peptide derived from human HBP1: 421-514/514
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Monkey)
Predicted MW.:	58kDa
Subcellular Location:	The nucleus
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-specifc 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 myogenein, induce the expression of these cell-type specific proteins and contribute to the development of cell phenotypes. The

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	progression of terminal differentiation is, therefore, dependent on both a decrease in HBP1 activity and the corresponding activation of MyoD-induced gene transcription. **Function:** Transcriptional repressor that binds to the promoter region of target genes. Plays a role in the regulation of the cell cycle and of the Wnt pathway. Binds preferentially to the sequence 5'-TTCATTCATTCA-3'. Binding to the H1F0 promoter is enhanced by interaction with RB1. Disrupts the interaction between DNA and TCF4. **Subunit:** Binds the second PAH repeat of SIN3A (By similarity). Binds TCF4 and RB1. **Subcellular Location:** Nucleus. **Similarity:** Contains 1 AXH domain. Contains 1 HMG box DNA-binding domain. **Database links:** **Entrez Gene:** 26959 Human **Entrez Gene:** 73389 Mouse **Entrez Gene:** 27080 Rat **SwissProt:** Q60381 Human **SwissProt:** Q8R316 Mouse **SwissProt:** Q62661 Rat **Unigene:** 162032 Human **Unigene:** 390461 Mouse **Unigene:** 458534 Mouse **Unigene:** 89226 Rat

[VALIDATION IMAGES]



Figure 1. Protein: intestine(mouse) lysates at 40ug; Primary: Anti-HBP1 (SL15418R) at 1:200; Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL0295G-HRP) at 1: 3000; ECL excitated the fluorescence; Predicted band size: 58kD Observed band size: 58kD

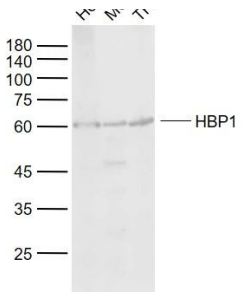


Figure 2. Sample: Lane 1: Human Hela cell lysates Lane 2: Human MCF-7 cell lysates Lane 3: Human THP-1 cell lysates Primary: Anti- HBP1 (SL15418R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 58 kD Observed band size: 58 kD

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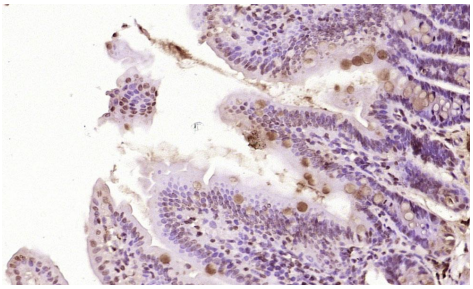


Figure 3. Paraformaldehyde-fixed, paraffin embedded (Mouse intestine); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (HBP1) Polyclonal Antibody, Unconjugated (SL15418R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

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