

## SHARP2 蛋白抗体

产品货号： mlR19756

英文名称： SHARP2

中文名称： SHARP2 蛋白抗体

别名： Basic helix loop helix domain containing class B 2; BHLHB 2; BHLHB2; bHLHe40; Class B Basic Helix Loop Helix Protein 2; Class E basic helix loop helix protein 40; Clast5; DEC 1; DEC1; Differentially expressed in chondrocytes 1; Differentially expressed in chondrocytes protein 1; Differentiated embryo chondrocyte expressed gene 1; E47 interaction protein 1; EIP1; Enhancer of Split and Hairy Related Protein 2; SHARP 2; Stimulated by retinoic acid gene 13 protein; Stimulated with retinoic acid 13; STRA 13; Stra 14; STRA13; Stra14.

研究领域： 转录调节因子 表观遗传学

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Pig, Cow, Horse, Sheep,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 （石蜡切片需做抗原修复）

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量： 45kDa

细胞定位： 细胞浆

性状： Lyophilized or Liquid

浓 度 : 1mg/ml

免 疫 原 : KLH conjugated synthetic peptide derived from human SHARP2:101-200/412

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed : PubMed

产品介绍 : This gene encodes a basic helix-loop-helix protein expressed in various tissues. The encoded protein can interact with ARNTL or compete for E-box binding sites in the promoter of PER1 and repress CLOCK/ARNTL's transactivation of PER1. This gene is believed to be involved in the control of circadian rhythm and cell differentiation. [provided by RefSeq, Feb 2014]

#### Function:

Transcriptional repressor involved in the regulation of the circadian rhythm by negatively regulating the activity of the clock genes and clock-controlled genes. Acts as the negative limb of a novel autoregulatory feedback loop (DEC loop) which differs from the one formed by the PER and CRY transcriptional repressors (PER/CRY loop). Both these loops are interlocked as it represses the expression of PER1/2 and in turn is repressed by PER1/2 and CRY1/2. Represses the activity of the circadian transcriptional activator: CLOCK-ARNTL/BMAL1|ARNTL2/BMAL2 heterodimer by competing for the binding to E-box elements (5'-CACGTG-3') found within the promoters of its target genes. Negatively regulates its own expression and the expression of DBP and BHLHE41/DEC2. Acts as a corepressor of RXR and the RXR-LXR heterodimers and represses the ligand-induced RXRA and NR1H3/LXRA transactivation activity. May be involved in the regulation of chondrocyte differentiation via the cAMP pathway

#### Subunit:

Homodimer. Heterodimer with BHLHE41/DEC2. Interacts with TCF3/E47. Interacts with ubiquitin-conjugating enzyme UBE2I/UBC9. Interacts with HDAC1, SUMO1, RXRA and ARNTL/BMAL1.

**Subcellular Location:**

Nuclear

**Tissue Specificity:**

Expressed in cartilage, spleen, intestine, lung, and to a lesser extent in heart, brain, liver, muscle and stomach.

**Post-translational modifications:**

Ubiquitinated; which may lead to proteasomal degradation.

Sumoylation inhibits its ubiquitination and promotes its negative regulation of the CLOCK-ARNTL/BMAL1 heterodimer transcriptional activator activity.

**Similarity:**

Contains 1 bHLH (basic helix-loop-helix) domain; Contains 1 Orange domain.

**SWISS:**

O14503

**Gene ID:**

8553

**Important Note:**



This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.