

环腺苷酸应答元件结合蛋白 H 抗体

产品货号： mlR11239

英文名称： CREB3L3

中文名称： 环腺苷酸应答元件结合蛋白 H 抗体

别 名： cAMP responsive element binding protein 3 like 3; cAMP responsive element-binding protein 3 like protein 3; CREB H; CREB/ATF family transcription factor; CREBH; Cyclic AMP responsive element binding protein 3 like protein 3; cAMP-responsive element-binding protein 3-like protein 3; HYST1481; MGC126553; MGC126557; Transcription factor CREB H; CR3L3_HUMAN.

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, Chicken, Dog, Pig, Cow, Sheep,

产品应用： WB=1:500-2000 ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 Flow-Cyt=0.2ug/Test

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： 49kDa

细胞定位： 细胞核 细胞浆 细胞膜

性 状： Lyophilized or Liquid

浓 度： 1mg/ml

免 疫 原： KLH conjugated synthetic peptide derived from human CREB-H:201-300/461

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： CREB3L3 is a 461 amino acid single-pass type II membrane protein that localizes to the endoplasmic reticulum (ER) and, in response to ER stress, is cleaved and translocated to the nucleus. Expressed exclusively in liver, CREB3L3 functions as a transcription factor that, during ER stress, is thought to activate genes that are involved in both the unfolded protein response and the acute phase response (APR). Additionally, CREB3L3 is underexpressed in hepatocellular carcinoma, suggesting a possible role as a tumor suppressor. CREB3L3 functions as a dimer and contains one leucine zipper domain, a KDEL-like sequence and a bZIP domain, through which it conveys its DNA binding ability. Three isoforms of CREB3L3 exist due to alternative splicing events.

Function:

Transcription factor that may act during endoplasmic reticulum stress by activating unfolded protein response target genes. Activated in response to cAMP stimulation. In vitro, binds to the cAMP response element (CRE) and box-B element. Activates transcription through box-B element. Activates transcription through CRE (By similarity). Seems to function synergistically with ATF6. In acute inflammatory response, may activate expression of acute phase response (APR) genes. May be involved in growth suppression.

Subunit:

Binds DNA as a dimer (By similarity). Probably homodimerizes. Probably forms a heterodimer with ATF6. Interacts with ATF6.

Subcellular Location:

Endoplasmic reticulum membrane; Single-pass type II membrane protein. Nucleus.

Tissue Specificity:

Exclusively expressed in liver. Underexpressed in hepatocellular carcinoma tissues.

Post-translational modifications:

Controlled by regulated intramembrane proteolysis (RIP). Following ER stress a fragment containing the cytoplasmic transcription factor domain is released by proteolysis. The cleavage seems to be performed sequentially by site-1 and site-2 proteases (PS1 and PS2).

N- and O-glycosylated. N-glycosylation is required for optimal proteolytic activation. O-glycosylated with core 1 or possibly core 8 glycans.

Similarity:

Belongs to the bZIP family. ATF subfamily.

Contains 1 bZIP (basic-leucine zipper) domain.

SWISS:

Q68CJ9

Gene ID:

84699

Important Note:

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

产品图片

