SunLong Biotech Co.,LTD
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Mouse Anti-CREB3L4 antibody

SLM-51569M

Product Name	CREB3L4
Chinese Name	CREB3L4 单克隆抗体
Alias	cAMP responsive element binding protein 3 like 4; JAL; hJAL; ATCE1; CREB3; CREB4; AIBZIP; CR3L4_HUMAN; Cyclic AMP-responsive element-binding protein 3-like protein 4; cAMP-responsive element-binding protein 3-like protein 4; Androgen-induced basic leucine zipper protein; Attaching to CRE-like 1; Cyclic AMP-responsive element-binding protein 4; CREB-4; cAMP-responsive element-binding protein 4; Transcript induced in spermiogenesis protein 40; Tisp40; Processed cyclic AMP-responsive element-binding protein 3-like protein 4.
Research Area	Chromatin and nuclear signals transcriptional regulatory factor Zinc finger protein
Immunogen Species	Mouse
Clonality	Monoclonal
Clone NO.	F6H12
React Species	Human, Rat,
Applications	WB=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	21kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human CREB3L4 between 1-300 amino acids.
Lsotype	IgG1
Purification	affinity purified by Protein G
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

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

PubMed

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This gene encodes a CREB (cAMP responsive element binding) protein with a transmembrane domain which localizes it to the ER membrane. The encoded protein is a transcriptional activator which contains a dimerization domain, and this protein may function in a number of processing pathways including protein processing. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Product Detail

Function:
Transcriptional activator that may play a role in the unfolded protein response. Binds to the UPR element (UPRE) but not to CRE element. Preferentially binds DNA with to the consensus sequence 5'-T[GT]ACGT[GA][GT]-3' and has transcriptional activation activity from UPRE. Binds to NF-kappa-B site and has transcriptional activation activity from NF-kappa-B-containing regulatory elements.

Subcellular Location:
Nucleus. Under ER stress the cleaved N-terminal cytoplasmic domain translocates into the nucleus and Endoplasmic reticulum membrane. Golgi apparatus membrane. May also be located in Golgi apparatus.

Tissue Specificity:
According to PubMed:11830526, exclusively expressed in the prostate. Expressed in breast and prostate cancer cell lines. Expressed in prostatic luminal epithelial cells (at protein level). Expression is significantly more abundant in prostate cancer than in benign prostatic tissue (prostatic hyperplasia). According to PubMed:12111373, also expressed in brain, pancreas and skeletal muscle, and at lower levels in small intestine, testis, leukocyte and thymus.

Post-translational modifications:
N-glycosylated in the C-terminal region.
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). PS1 cleavage may be suppressed by a determinant in the C-terminal region.

Similarity:
Belongs to the bZIP family. ATF subfamily.
Contains 1 bZIP domain.

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SWISS:
Q8TEY5

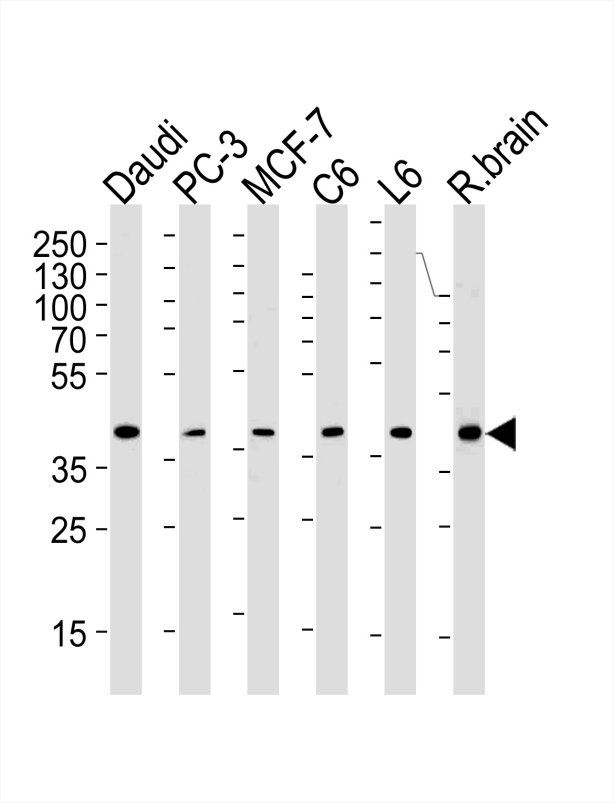
Gene ID:
148327

Database links:

Entrez Gene: 148327 Human

SwissProt: Q8TEY5 Human

Product Picture



Sample:

Lane 1: Daudi cell lysates

Lane 2: PC-3 cell lysates

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Lane 3: MCF-7 cell lysates

Lane 4: C6 cell lysates

Lane 5: L6 cell lysates

Lane 6: Rat brain tissue lysates

Primary: Anti-CREB3L4 (SLM-51569M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 21 kD

Observed band size: 40 kD