abcam

Product datasheet

Anti-CREBBP (acetyl K1535) antibody ab61242

1 References 2 Images

Overview

Product name	Anti-CREBBP (acetyl K1535) antibody
Description	Rabbit polyclonal to CREBBP (acetyl K1535)
Host species	Rabbit
Specificity	Detects endogenous levels of CBP only when acetylated at lysine 1535.
Tested applications	**Suitable for:** IHC-P, ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide corresponding to Human CREBBP (acetyl K1535). Sequence: SAKAcEL Run BLAST with Run BLAST with
Positive control	Human lung carcinoma tissue.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride Without Mg2+ and Ca2+
Purity	Immunogen affinity purified

Purification notes	Purified from rabbit antiserum by affinity chromatography using epitope specific acetylated peptide. The antibody against non acetylated peptide was removed by chromatography using non acetylated peptide corresponding to the acetylation site.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab61242 in the following tested applications.

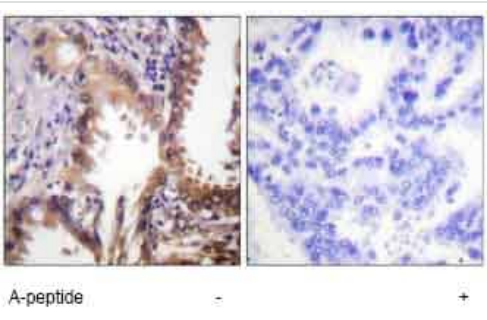
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/50 - 1/100.
ICC/IF		Use a concentration of 1 - 5 µg/ml.

Target

Function	Acetylates histones, giving a specific tag for transcriptional activation. Also acetylates non-histone proteins, like NCOA3 coactivator. Binds specifically to phosphorylated CREB and enhances its transcriptional activity toward cAMP-responsive genes. Acts as a coactivator of ALX1 in the presence of EP300.
Involvement in disease	Note=Chromosomal aberrations involving CREBBP may be a cause of acute myeloid leukemias. Translocation t(8;16)(p11;p13) with MYST3/MOZ; translocation t(11;16)(q23;p13.3) with MLL/HRX; translocation t(10;16)(q22;p13) with MYST4/MORF. MYST3-CREBBP may induce leukemia by inhibiting RUNX1-mediated transcription. Defects in CREBBP are a cause of Rubinstein-Taybi syndrome type 1 (RSTS1) [MIM:180849]. RSTS1 is an autosomal dominant disorder characterized by craniofacial abnormalities, broad thumbs, broad big toes, mental retardation and a propensity for development of malignancies.
Sequence similarities	Contains 1 bromo domain. Contains 1 KIX domain. Contains 2 TAZ-type zinc fingers. Contains 1 ZZ-type zinc finger.
Domain	The KIX domain mediates binding to HIV-1 Tat.
Post-translational modifications	Methylation of the KIX domain by CARM1 blocks association with CREB. This results in the blockade of CREB signaling, and in activation of apoptotic response. Phosphorylated upon DNA damage, probably by ATM or ATR. Sumoylation negatively regulates transcriptional activity via the recruitment of DAAX.
Cellular localization	Cytoplasm. Nucleus. Recruited to nuclear bodies by SS18L1/CREST. In the presence of ALX1 relocalizes from the cytoplasm to the nucleus.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CREBBP (acetyl K1535) antibody (ab61242)

Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue using CREBBP (acetyl K1535) antibody (ab61242) at 1/50 dilution, in the presence (right panel) or absence (left panel) of acetylated peptide.

Immunocytochemistry/ Immunofluorescence - Anti-CREBBP (acetyl K1535) antibody (ab61242)

ICC/IF image of ab61242 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab61242, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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