

ARG57967 anti-CREBBP / KAT3A antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CREBBP / KAT3A
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CREBBP / KAT3A
Species	Human
Immunogen	Synthetic peptide corresponding to a sequence within aa. 100-200 of Human CREBBP (NP_004371.2).
Conjugation	Un-conjugated
Alternate Names	KAT3A; CBP; CREB-binding protein; RSTS; EC 2.3.1.48

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Jurkat	
Observed Size	~ 280 kDa	

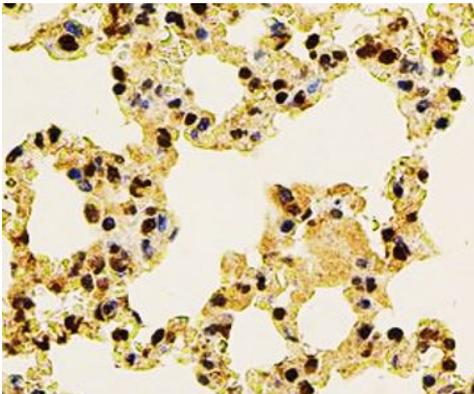
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CREBBP
Gene Full Name	CREB binding protein
Background	<p>This gene is ubiquitously expressed and is involved in the transcriptional coactivation of many different transcription factors. First isolated as a nuclear protein that binds to cAMP-response element binding protein (CREB), this gene is now known to play critical roles in embryonic development, growth control, and homeostasis by coupling chromatin remodeling to transcription factor recognition. The protein encoded by this gene has intrinsic histone acetyltransferase activity and also acts as a scaffold to stabilize additional protein interactions with the transcription complex. This protein acetylates both histone and non-histone proteins. This protein shares regions of very high sequence similarity with protein p300 in its bromodomain, cysteine-histidine-rich regions, and histone acetyltransferase domain. Mutations in this gene cause Rubinstein-Taybi syndrome (RTS). Chromosomal translocations involving this gene have been associated with acute myeloid leukemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Feb 2009]</p>
Function	<p>Acetylates histones, giving a specific tag for transcriptional activation. Also acetylates non-histone proteins, like NCOA3 and FOXO1. Binds specifically to phosphorylated CREB and enhances its transcriptional activity toward cAMP-responsive genes. Acts as a coactivator of ALX1. Acts as a circadian transcriptional coactivator which enhances the activity of the circadian transcriptional activators: NPAS2-ARNTL/BMAL1 and CLOCK-ARNTL/BMAL1 heterodimers. Acetylates PCNA; acetylation promotes removal of chromatin-bound PCNA and its degradation during nucleotide excision repair (NER). [UniProt]</p>
Calculated Mw	265 kDa
PTM	<p>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 (By similarity).</p> <p>Phosphorylated by CHUK/IKKA at Ser-1382 and Ser-1386; these phosphorylations promote cell growth by switching the binding preference of CREBBP from TP53 to NF-kappa-B.</p> <p>Sumoylation negatively regulates transcriptional activity via the recruitment of DAAX.</p> <p>Autoacetylation is required for binding to protein substrates, such as acetylated histones and acetylated TP53/p53. [UniProt]</p>
Cellular Localization	Cytoplasm, Nucleus. [UniProt]

Images

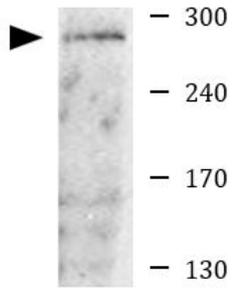


ARG57967 anti-CREBBP / KAT3A antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat lung stained with ARG57967 anti-CREBBP / KAT3A antibody at 1:100 dilution.

ARG57967 anti-CREBBP / KAT3A antibody WB image

Western blot: 25 µg of Jurkat cell lysate stained with ARG57967 anti-CREBBP / KAT3A antibody at 1:1000 dilution.



Jurkat