10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CREBBP Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CREBBP.
Catalog # AT1621a

Product Information

Application	WB, IF, E
Primary Accession	Q92793
Other Accession	NM_004380
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 kappa
Clone Names	2H5
Calculated MW	265351

Additional Information

Gene ID	1387
Other Names	CREB-binding protein, CREBBP, CBP
Target/Specificity	CREBBP (NP_004371, 951 a.a. ~ 1050 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CREBBP Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

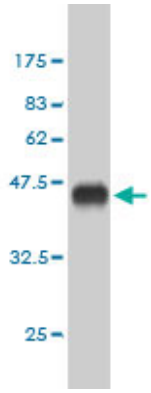
Background

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.

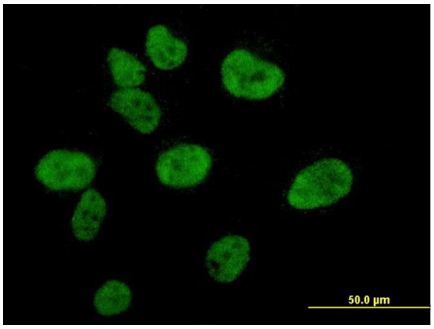
References

Dengue hemorrhagic fever is associated with polymorphisms in JAK1. Silva LK, et al. Eur J Hum Genet, 2010 Jun 30. PMID 20588308.CCAAT/Enhancer-binding protein beta DNA binding is auto-inhibited by multiple elements that also mediate association with p300/CREB-binding protein (CBP). Lee S, et al. J Biol Chem, 2010 Jul 9. PMID 20452968.DNA cytosine methylation in the bovine leukemia virus promoter is associated with latency in a lymphoma-derived B-cell line: potential involvement of direct inhibition of cAMP-responsive element (CRE)-binding protein/CRE modulator/activation transcription factor binding. Pierard V, et al. J Biol Chem, 2010 Jun 18. PMID 20413592.CREBBP re-arrangements affect protein function and lead to aberrant neuronal differentiation. Sharma N, et al. Differentiation, 2010 Apr-Jun. PMID 20207472.High frequency of copy number imbalances in Rubinstein-Taybi patients negative to CREBBP mutational analysis. Gervasini C, et al. Eur J Hum Genet, 2010 Jul. PMID 20125191.

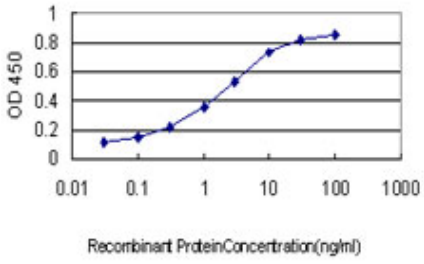
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

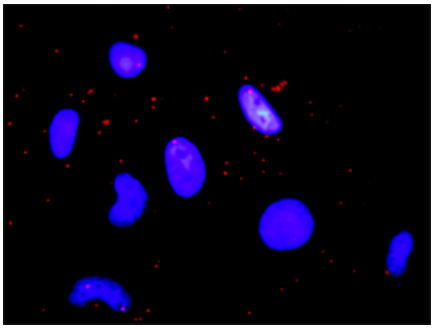


Immunofluorescence of monoclonal antibody to CREBBP on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged CREBBP is approximately 0.03ng/ml as a capture antibody.

Proximity Ligation Analysis of protein-protein interactions between FGFR1 and CREBBP HeLa cells were stained with anti-FGFR1 rabbit purified polyclonal 1:1200 and anti-CREBBP mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



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