

Product Datasheet

CREB [p Ser133] Antibody - Azide Free **NB300-273**

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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Publications: 10

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NB300-273

CREB [p Ser133] Antibody - Azide Free

Product Information

Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	10mM HEPES (pH 7.5), 0.15M NaCl, 0.1 mg/ml BSA and 50% Glycerol
Target Molecular Weight	45 kDa

Product Description

Description	Novus Biologicals Rabbit CREB [p Ser133] Antibody - Azide Free (NB300-273) is a polyclonal antibody validated for use in IHC and WB. Anti-CREB Antibody: Cited in 10 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1385
Gene Symbol	CREB1
Species	Mouse, Rat
Reactivity Notes	Use in Rat reported in scientific literature (PMID:34346292). Mouse reactivity reported in scientific literature (PMID: 21838783)..
Specificity/Sensitivity	Specific for endogenous levels of the ~45 kDa CREB protein phosphorylated at Ser133. Immunolabeling is completely eliminated by treatment with lambda-phosphatase.
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser133 conjugated to KLH. Accession # P15337

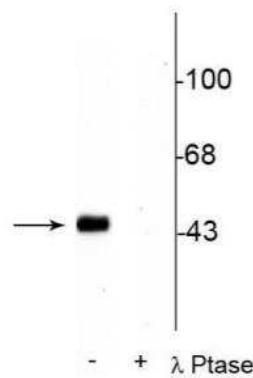
Product Application Details

Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Frozen
Recommended Dilutions	Western Blot 1:1000, Immunohistochemistry, Immunohistochemistry-Frozen 1:1000
Application Notes	This antibody has not been validated for use in paraffin embedded sections (IHC-P). For IHC-Fr, the antibody was used at 1:1000 and incubated for 48 hours at 4C. The dilution buffer used was 0.1M PBS, 0.5% Triton-100, and 3% normal serum. No antigen retrieval step was performed.

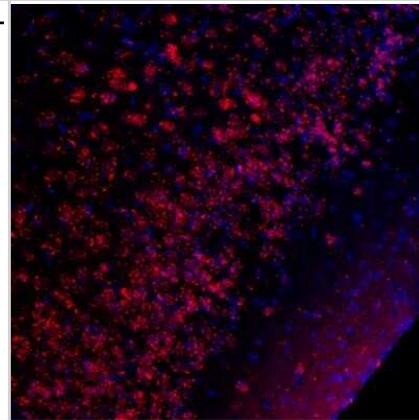


Images

Western Blot: CREB [p Ser133] Antibody [NB300-273] - Rat hippocampal lysate stimulated with forskolin showing specific immunolabeling of the ~45 kDa CREB phosphorylated at Ser133 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by lysate treatment with lambda phosphatase lambda-Ptase, 800 units/1mg protein for 30 min).



Immunohistochemistry-Frozen: CREB [p Ser133] Antibody [NB300-273] - IHC Analysis of pCREB S133 (red) in frozen sections from mouse piriform cortex. Cell nuclei are visualized with DAPI DNA stain (blue). NB300-273 was used at a dilution of 1:1000 and incubated for 48 hours at 4C. No antigen retrieval step was performed.



Publications

Costa DVS, Shin JH, Goldbeck SM et al. Adenosine receptors differentially mediate enteric glial cell death induced by Clostridioides difficile Toxins A and B *Frontiers in immunology* 2023-01-16 [PMID: 36726986] (WB, Rat)

Details:

Dilutions: 1:500

Strand E, HollAs H, Sakya SA Et al. Annexin A2 binds the internal ribosomal entry site of c-myc mRNA and regulates its translation RNA biology 2021-08-04 [PMID: 34346292] (WB, Rat)

Wall AM, Corcoran AE, O'Halloran KD, O'Connor JJ. Effects of prolyl-hydroxylase inhibition and chronic intermittent hypoxia on synaptic transmission and plasticity in the rat CA1 and dentate gyrus. *Neurobiol Dis.* 2013-09-17 [PMID: 24055213] (WB, Rat)

Shaywitz AJ, Greenberg ME. CREB: a stimulus-induced transcription factor activated by a diverse array of extracellular signals. *Annu Rev Biochem* 68:821-861. [PMID: 10872467]

Karin M, Hunter T. Transcriptional control by protein phosphorylation: signal transmission from the cell surface to the nucleus. *Curr Biol* 5:747-757. [PMID: 7583121]

Kornhauser JM, Cowan CW, Shaywitz AJ, Dolmetsch RE, Griffith EC, Hu LS, Haddad C, Xia ZG, Greenberg ME. CREB transcriptional activity in neurons is regulated by multiple, calcium-specific phosphorylation events. *Neuron* 34:221-233. 2002-01-01 [PMID: 11970864]

Silva AJ, Kogan JH, Frankl PW, Kida S. CREB memory. *Annu Rev Neurosci* 21:127-148. 1998-01-01 [PMID: 9530494]

Montminy M. Transcriptional regulation by cyclic AMP. *Annu Rev Biochem* 66:807-822. 1997-01-01 [PMID: 9242925]

Johannessen M, Delghandi MP, Moens U. What turns CREB on? *Cell Signal*;16(11):1211-27. 2004-11-01 [PMID: 15337521]

Schneider A, Mehmood T, Pannetier S, Hanauer A. Altered ERK/MAPK signaling in the hippocampus of the mrsk2_KO mouse model of Coffin-Lowry syndrome. *J Neurochem.* 2011-08-12 [PMID: 21838783] (WB, Mouse)



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Products Related to NB300-273

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00001385-P01-10ug	Recombinant Human CREB GST (N-Term) Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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