

Product Datasheet

Cre Antibody NB100-56133SS

Unit Size: 0.025 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 4

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NB100-56133SS

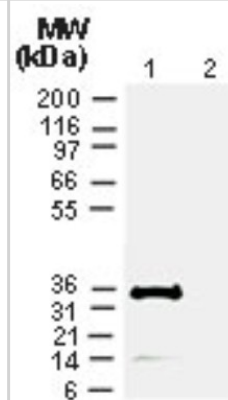
Cre Antibody

Product Information	
Unit Size	0.025 ml
Concentration	1.18 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Purity	Immunogen affinity purified
Buffer	PBS, 30% glycerol
Product Description	
Host	Rabbit
Species	Mouse, Cre/lox System
Species Reactivity	Cre/lox Systems and Mouse. Not yet tested in other species.
Immunogen	A synthetic peptide made to a portion of bacteriophage protein CRE (within amino acids 50-100). [UniProt# P06956]
Product Application Details	
Applications	Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunohistochemistry 1:1000-1:5000, Immunohistochemistry-Frozen 1:1000-1:5000, Immunohistochemistry-Paraffin 1:1000-1:5000, Immunoprecipitation 1:50-1:200, Western Blot 1:1000-1:4000
Application Notes	This Cre antibody is useful for Immunoprecipitation, Western Blot, Immunohistochemistry-paraffin embedded sections, Immunohistochemistry-frozen sections, and Immunocytochemistry/Immunofluorescence (PMID: 21888903).

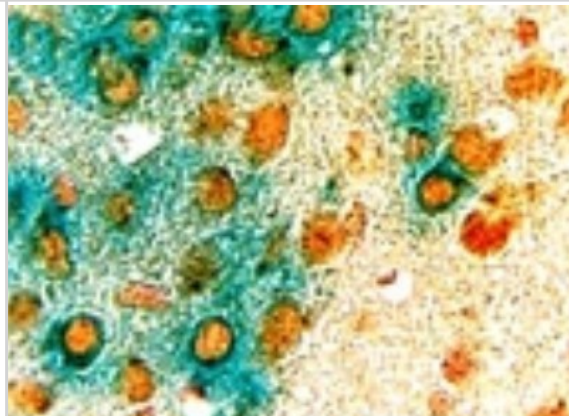


Images

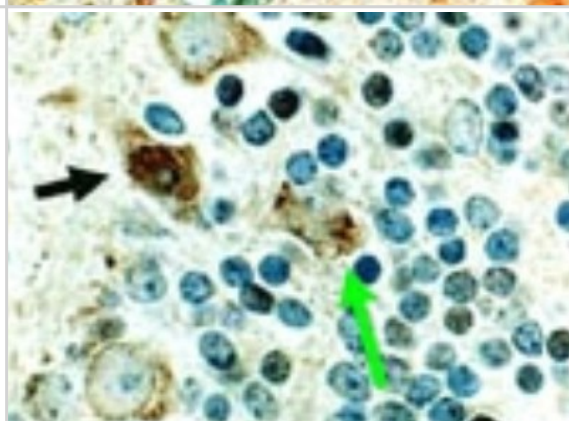
Western Blot: Cre Antibody [NB100-56133] - Analysis of Cre using NB100-56133 at 1:2000. Lane 1, HeLa cells stably transfected with a CRE expression plasmid. Lane 2, HeLa cells transfected with a neo plasmid (negative control).



Immunohistochemistry: Cre Antibody [NB100-56133] - Immunohistochemical analysis of Cre in a formalin-fixed, paraffin embedded tissue section from the cerebellum of a Cre transgenic mouse using NB100-56133 at 1:2000. In this mouse line, Cre is expressed in the neurons brain. This mouse line also contains a LacZ reporter gene that becomes transcriptionally active upon Cre-mediated recombination. Brain tissue slices were stained with X-gal (blue color) prior to embedding. Cre staining is brown. Nuclear Red counterstain.



Immunohistochemistry: Cre Antibody [NB100-56133] - Immunohistochemical analysis of Cre in a formalin-fixed, paraffin embedded tissue section from the cerebellum of a Cre transgenic mouse using NB100-56133 at 1:2000. In this mouse line, Cre is expressed in the brain, predominantly in the nuclei of most types of neurons. The arrow denotes an example of a stained neuron. Cre staining is also seen in the cytosol of cerebellar Purkinje cells. Hematoxylin-eosin counterstain.



Publications

Gonzalez-Sanchez E, Martin-Caballero J, Flores JM et al. Lkb1 Loss Promotes Tumor Progression of BRAFV600E-Induced Lung Adenomas. PLoS One 2013 Jun 25 [PMID: 23825589] (IHC-P, Mouse)

Welsbie DS, Yang Z, Ge Y et al. Functional genomic screening identifies dual leucine zipper kinase as a key mediator of retinal ganglion cell death. Proc Natl Acad Sci U S A 2013 Mar 5 [PMID: 23431148] (IHC, ICC/IF, Mouse)

Banares S et al. Novel pan-neuronal Cre-transgenic line for conditional ablation of genes in the nervous system. Genesis;42(1):6-16. 2005 May. [PMID: 15828007] (WB, IHC, Mouse)

Magenheim J, Klein AM, Stanger BZ et al. Ngn3(+) endocrine progenitor cells control the fate and morphogenesis of pancreatic ductal epithelium. Developmental Biology. 2011 Aug 17. [PMID: 21888903]

Procedures

Western Blot Protocol for Cre Antibody (NB100-56133)

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 35 ug of total protein per lane.
 2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
 3. Rinse membrane with dH₂O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
 4. Rinse the blot in TBS for approximately 5 minutes.
 5. Block the membrane using 5% NFDM + 1% BSA in TBS + Tween, 1 hour at RT.
 6. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
 7. Dilute the rabbit anti-cre primary antibody (NB100-56133) in blocking buffer and incubate 1 hour at room temperature.
 8. Rinse the membrane in dH₂O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
 9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
 10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
 11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).
- Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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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.

For more information on our guarantee, please visit www.novusbio.com/guarantee.

