Product Datasheet

Cre Antibody - BSA Free
NB100-56134

Unit Size: 0.05 ml

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

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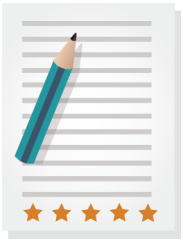
Reviews: 1 Publications: 8

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-56134

Updated 9/9/2025 v.20.1



NB100-56134

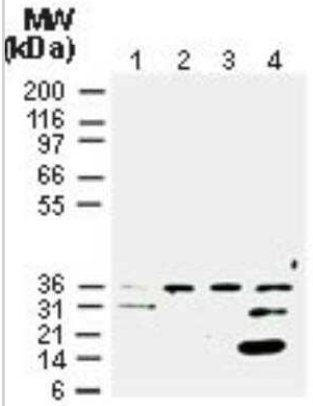
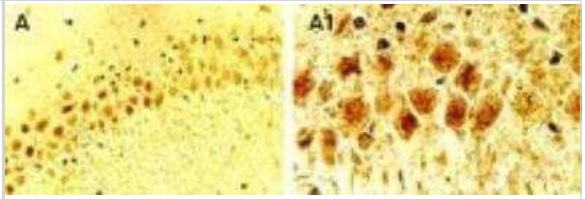
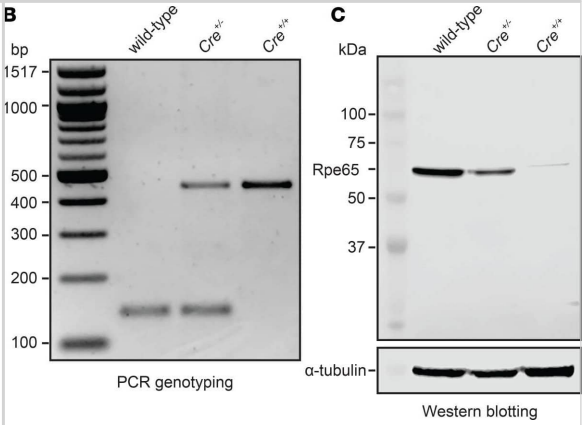
Cre Antibody - BSA Free

Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Unpurified
Buffer	Whole antisera
Target Molecular Weight	38.5 kDa

Product Description	
Description	Novus Biologicals Rabbit Cre Antibody - BSA Free (NB100-56134) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-Cre Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Species	Mouse, Cre/lox System
Reactivity Notes	Specific to Cre/lox system (Bacteriophage). Shown to detect Cre protein in Cre-transgenic mice. Use in Mouse reported in scientific literature (PMID:33784255)
Immunogen	A synthethic peptide corresponding to a portion of amino acids 1-50 of the bacteriophage protein CRE was used as immunogen, GenBank no. AAQ14086.1.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, SDS-Page, Immunohistochemistry Free-Floating
Recommended Dilutions	Western Blot 1:1000 - 1:2000. Use reported in scientific literature (PMID 33784255), Immunohistochemistry 1:10 - 1:5000, Immunoprecipitation 1:50 - 1:200, Immunohistochemistry-Paraffin 1:1000 - 1:5000, Immunohistochemistry-Frozen 1:10 - 1:5000, SDS-Page reported in scientific literature (PMID 27432829), Immunohistochemistry Free-Floating reported in scientific literature (PMID 25429143)
Application Notes	CRE is detected at approx. 36-38 kDa on western blots. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

Western Blot: Cre Antibody - Unpurified [NB100-56134] - Lane 1: wild-type mouse (negative control). Lanes 2 and 3: brain from 2 types of Cre transgenic mice. Lane 4: recombinant Cre (positive control). Full-length Cre is detected at ~36-38 kDa. The lower molecular weight bands in lane 4 are breakdown products from the recombinant Cre protein.	
Immunohistochemistry: Cre Antibody - Unpurified [NB100-56134] - Cre Antibody [NB100-56134] - Analysis of Cre in a FFPE tissue section from the hippocampus of a Cre transgenic mouse at 1:2000. In this mouse line, Cre is expressed in the brain, predominantly in the nuclei of most types of neurons. Hematoxylin-eosin counterstain. A1 is a higher magnification of A.	
Western Blot: Cre Antibody [NB100-56134] - Generation, identification, & Rpe65 expression analysis of Rpe65CreERT2 mice.(A) KI strategy to introduce a P2A-CreERT2 coding sequence in-frame with the final coding exon (exon 14) of the Rpe65 gene. Primer-binding sites & expected PCR product sizes are shown below the wild-type & targeted alleles. The neomycin cassette in the targeting vector was removed during expansion of the embryonic stem cell clone. FLP-recombinase was subsequently bred out by crossing with C57BL/6 mice. The KI allele allows cotranslational expression of RPE65-P2A & CreERT2 as 2 separate polypeptides. The modified RPE65 protein contains an additional G534SGATNFSLLKQAGDVEENPG554 polypeptide sequence at its C-terminus, while CreERT2 contains an additional Pro residue at its N-terminus. (B) Genotyping results from wild-type, Cre+/–, & Cre+/+ animals. (C) Western blot analysis of RPE65 expression. After normalization to the α-tubulin loading controls, the RPE65 expression levels in Cre+/– & Cre+/+ mice were estimated to be 59.7% & 1.1% of that for wild-type mice. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/33784255), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Wang PY, Ma J, Li J et al. Reducing Fatty Acid Oxidation Improves Cancer-free Survival in a Mouse Model of Li-Fraumeni Syndrome Cancer Prevention Research 2021-01-01 [PMID: 32958587] (Western Blot)

Pauwels MJ, Xie J, Ceroi A et al. Choroid plexus-derived extracellular vesicles exhibit brain targeting characteristics Biomaterials 2022-11-01 [PMID: 36302306] (WB, Mouse)

Choi EH, Suh S, Einstein DE et al. An inducible Cre mouse for studying roles of the RPE in retinal physiology and disease JCI insight 2021-03-30 [PMID: 33784255] (WB, Mouse)

Whitaker N, Berry TM, Rosenthal N et al. Chimeric Coupling Proteins Mediate Transfer of Heterologous Type IV Effectors through the Escherichia coli pKM101-Encoded Conjugation Machine. J. Bacteriol. 2016-10-01 [PMID: 27432829] (IF/IHC, PAGE)

Zhang F, Yu J, Yang T et al. A Novel c-Jun N-terminal Kinase (JNK) Signaling Complex Involved in Neuronal Migration during Brain Development. J. Biol. Chem. 2016-03-29 [PMID: 27026702] (IF/IHC)

Kelsch W, Li Z, Wieland S et al. GluN2B-containing NMDA receptors promote glutamate synapse development in hippocampal interneurons. J. Neurosci. 2014-11-26 [PMID: 25429143] (IHC-FrFl, Cre/lox System)

Details:
Cre antibody used for IHC-Fr in mutant mice with conditional deletion of GluN2B in interneurons /GluN2BdeltaGAD67 - 3% PFA perfusion followed by 12h 4C fixation, 50um coronal slices, blocking with 1% bovine serum albumin containing 0.25% Triton X-100, primary used at 1:500 dilution with 4C ON incubation, detection via Alexa 488-conjugated secondary antibodies (Figure 4 D-G).

Banares S, Zeh K, Krajewska M et al. Novel pan-neuronal Cre-transgenic line for conditional ablation of genes in the nervous system. Genesis. 2005-05-01 [PMID: 15828007] (WB)

Details:
1. IMG-5720 (AR-59A): WB., IHC-P. 2. IMG-5721 (AR-59B): WB, IHC-F. 3. IMG-5722 (AR-60A): IHC-P

Copple BL, Kaska S, Wentling C. Hypoxia-inducible factor activation in myeloid cells contributes to the development of liver fibrosis in cholestatic mice. J Pharmacol Exp Ther. 2012-05-01 [PMID: 22271822] (IHC-Fr, Mouse)

Details:
IHC (frozen): Fig 1B, D (mouse liver). The Cre antibody (IMG-5720. IMG-5721 or IMG-5722) was used at 1:4000.

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Products Related to NB100-56134

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB100-56134PEP	Cre Antibody Blocking Peptide

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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