

Rabbit Cre Polyclonal Antibody | anti-Cre antibody

Polyclonal Antibody to Cre

CATALOG # AAA78334	HOST Rabbit	REACTIVITY Cre/lox Systems	APPLICATIONS Immunoprecipitation, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

Cre; Polyclonal Antibody; Polyclonal Antibody to Cre; TOP1; DNA topoisomerase I; Antibody to Cre; Anti-Cre Antibody; Cre Antibody; anti-Cre antibody

PRODUCT SPECIFICATIONS

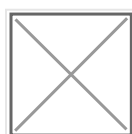
Host	Rabbit
Reactivity	Cre/lox Systems
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Serum
Form/Format	50 ul sera
Sequence Length	765
Applicable Applications for anti-Cre antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Information	A synthetic peptide of the bacteriophage protein Cre (amino acids 57-73 KLNNRKWFPAEPEDVRD) was used as immunogen for this antibody
Antigen	Cre
Preparation and Storage	Store the antibody at 4 degree C, stable for 6 months. For long-term storage, store at -20 degree C. Avoid repeated freeze and thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Fig: 3 Immunohistochemical analysis of Cre in a formalin-fixed, paraffin embedded tissue section from the cerebellum of a Cre transgenic mouse using 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.



IHC (Immunohistochemistry)

Fig: 2 Immunohistochemical analysis of Cre in a formalin-fixed, paraffin embedded tissue section from the cerebellum of a Cre transgenic mouse using 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.

WB (Western Blot)

Fig: 1 Western blot analysis of Cre using anti-Cre antibody. Lane 1, HeLa cells stably transfected with a CRE expression plasmid. Lane 2, HeLa cells transfected with a neo plasmid (negative control).

ADDITIONAL INFORMATION

Related Product Information for anti-Cre antibody	This antibody recognizes a 343 amino acid recombinase protein. The Cre (cyclization recombination) enzyme, a member of a large family of recombinases, recognizes loxP which is a sequence motif of 34 bp from the P1 bacteriophage. If a DNA segment is flanked by two loxP sites in the same orientation, Cre excises that segment leaving a single loxP site in the remaining DNA molecule. The excised DNA segment is subsequently degraded. Cre and lox comprise the Cre/lox system which was first developed in the late 1980's to artificially manipulate gene expression (reviewed in Branda and Dymecki, 2004; Ghosh and Duyne, 2002; and Gilbertson, 2003). As an example, mice with the Cre protein expressing in a specific cell type are bred with mice that contain a target gene surrounded by loxP sites. When the mice are bred, the cells carrying Cre will cause those cells to lose the target gene. If the Cre gene is, for example, bound to a promoter that only allows Cre production in neuronal cells, the target gene will be deleted only in those cells. Since 1989 the Cre/lox system has been used extensively and there are numerous animal, plant and bacterial stocks that already contain the Cre gene driven by ubiquitous, tissue-specific or inducible promoters and provide a quick method for breeding experiments. The Cre/lox system has the advantage of working in almost any type of cell. This has led to its application in many experiments, for example in selectively labeling neuronal cells in the brain thereby differentiating them from other types of surrounding cells.
Product Categories/Family for anti-Cre antibody	Antibodies ; Apoptosis

NCBI AND UNIPROT INFORMATION

NCBI GI #	12644118
NCBI GeneID	7150
UniProt Accession #	P11387 ; O43256 ; Q12855 ; Q12856 ; Q15610 ; Q5TFY3 ; Q9UJN0 ; A8KA78 ; E1P5W3
Molecular Weight	90,726 Da
NCBI Official Full Name	DNA topoisomerase 1
NCBI Official Synonym Full Names	topoisomerase (DNA) I
NCBI Official Symbol	TOP1
NCBI Official Synonym Symbols	TOPI
NCBI Protein Information	DNA topoisomerase 1
UniProt Protein Name	DNA topoisomerase 1
UniProt Gene Name	TOP1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cre-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/78334>