



# Anti-Cre Recombinase (internal region) polyclonal antibody (DPAB2443)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Rabbit anti-cre recombinase polyclonal antibody.
<b>Antigen Description</b>	Cre is a 38 kDa recombinase protein from bacteriophage P1 which mediates intramolecular and intermolecular site specific recombination between loxP sites. The role of Cre is to resolve dimers of P1 that arise after replication in order to allow partitioning of the two P1 molecules at cell division. A loxP site (locus of X-ing over) consists of two 13 bp inverted repeats separated by an 8 bp asymmetric spacer region. One molecule of Cre binds per inverted repeat or two Cre molecules line up at one loxP site. The recombination occurs in the asymmetric spacer region. Those 8 bases are also responsible for the directionality of the site. Two loxP sequences in opposite orientation to each other invert the intervening piece of DNA, two sites in direct orientation dictate excision of the intervening DNA between the sites leaving one loxP site behind. Thus, this precise removal of DNA can be used to eliminate an endogenous gene or transgene activate a transgene.
<b>Specificity</b>	Confirmed by western blotting
<b>Immunogen</b>	Synthetic peptide of the middle part of Cre recombinase (MLHRRSGLPRPSDSNAV)
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Purified with antigen peptide
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IHC-P, WB

<b>Format</b>	Lyophilized product from 1% BSA in PBS containing 0.05%NaN3
<b>Preservative</b>	0.05% Sodium Azide
<b>Storage</b>	Lyophilized product, 5 years at 2 - 8 oC; Solution, 2 years at - 20 °C.

## BACKGROUND

<b>Introduction</b>	Cre recombinase, often abbreviated to Cre, is a Type I topoisomerase from P1 bacteriophage that catalyzes site-specific recombination of DNA between loxP sites. The enzyme does not require any energy cofactors and Cre-mediated recombination quickly reache
<b>Keywords</b>	Cre recombinase; Cre; Cyclization recombinase; Recombinase cre