


#7803 Store at -20C	Cre Recombinase Antibody	
	Orders: 877-616-CELL (2355) orders@cellsignal.com	
	Support: 877-678-TECH (8324)	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	All	Transfected Only	38	Rabbit	#P06956	2777477

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Cre Recombinase Antibody recognizes transfected levels of total Cre recombinase protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp141 of Cre recombinase protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Cre recombinase is a bacteriophage-P1 enzyme required for maintenance of the phage genome as a monomeric plasmid in the lysogenic state (1,2). This enzyme mediates a site-specific recombination between two 34-base-pair loxP sites. This reaction can be carried out *in vitro*, indicating that it does not require accessory factors (3). The Cre/Lox system has been used for a number of *in vitro* and *in vivo* applications, including targeted gene deletions (4) and gene-specific humanized animal models (5). Resolution of the crystal structure of the Cre-Lox complex revealed that two Cre molecules interact with a single Lox site (6).

Background References

1. Abremski, K. et al. (1983) *Cell* 32, 1301-11.
2. Sternberg, N. et al. (1981) *Cold Spring Harb Symp Quant Biol* 45 Pt 1, 297-309.
3. Abremski, K. and Hoess, R. (1984) *J Biol Chem* 259, 1509-14.
4. Qin, M. et al. (1994) *Proc Natl Acad Sci U S A* 91, 1706-10.
5. Lakso, M. et al. (1992) *Proc Natl Acad Sci U S A* 89, 6232-6.
6. Guo, F. et al. (1997) *Nature* 389, 40-6.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

All: All Species Expected

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