

Store at
-20C
#50318**Cre Recombinase (D7L7L) XP[®] Rabbit mAb (HRP Conjugate)**
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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	37	Rabbit IgG	#P06956	2777477

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Cre Recombinase (D7L7L) Rabbit mAb (HRP Conjugate) recognizes transfected and transgenic levels of total Cre recombinase protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of bacteriophage-P1 Cre recombinase protein.

Description

This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Cre Recombinase (D7L7L) Rabbit mAb #15036.

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**Trademarks and Patents**

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