

#50318 Store at -20°C

Cre Recombinase (D7L7L) XP® Rabbit mAb (HRP Conjugate)


Cell Signaling
TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: All	Sensitivity: Transfected Only	MW (kDa): 37	Source/Isotype: Rabbit IgG	UniProt ID: #P06956	Entrez-Gene Id: 2777477
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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.	
Product 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.	

MW (kDa)

37

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 <i>in vitro</i> , indicating that it does not require accessory factors (3). The Cre/Lox system has been used for a number of <i>in vitro</i> and <i>in vivo</i> 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	<ol style="list-style-type: none"> 1. Abremski, K. et al. (1983) <i>Cell</i> 32, 1301-11. 2. Sternberg, N. et al. (1981) <i>Cold Spring Harb Symp Quant Biol</i> 45 Pt 1, 297-309. 3. Abremski, K. and Hoess, R. (1984) <i>J Biol Chem</i> 259, 1509-14. 4. Qin, M. et al. (1994) <i>Proc Natl Acad Sci U S A</i> 91, 1706-10. 5. Lakso, M. et al. (1992) <i>Proc Natl Acad Sci U S A</i> 89, 6232-6. 6. Guo, F. et al. (1997) <i>Nature</i> 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	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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