



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at +4C
#59238

Cre Recombinase (D7L7L) XP[®] Rabbit mAb (PE Conjugate)

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

Applications: FC-FP	Reactivity: All	Sensitivity: Transfected Only	Source/Isotype: Rabbit IgG	UniProt ID: #P06956	Entrez-Gene Id: 2777477
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	Cre Recombinase (D7L7L) XP [®] Rabbit mAb (PE 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 phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This 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 <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).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	All: All Species Expected
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