

Cre Recombinase (D3U7F) Rabbit mAb



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Applications: W, FC-FP	Reactivity: All	Sensitivity: Transfected Only	MW (kDa): 37	Source/Isotype: Rabbit IgG	UniProt ID: #P06956	Entrez-Gene Id: 2777477
Product Usage Information		Application Western Blotting Flow Cytometry (Fixed/Permeabilized)			Dilution 1:1000 1:400 - 1:1600	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Cre Recombinase (D3U7F) Rabbit mAb recognizes transfected levels of total Cre recombinase protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly103 of bacteriophage-P1 Cre recombinase protein.				
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		 Abremski, K. et al. (1983) Cell 32, 1301-11. Sternberg, N. et al. (1981) Cold Spring Harb Symp Quant Biol 45 Pt 1, 297-309. Abremski, K. and Hoess, R. (1984) J Biol Chem 259, 1509-14. Qin, M. et al. (1994) Proc Natl Acad Sci U S A 91, 1706-10. Lakso, M. et al. (1992) Proc Natl Acad Sci U S A 89, 6232-6. 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 FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key		All: All Species Expected				
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