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

Cre Recombinase (D3U7F) Rabbit

Applications: Reactivi WB, FC-FP All	ty: Sensitivity: Transfected Only	<b>MW (kDa):</b> 37	Source/Isotype: Rabbit IgG	UniProt ID: #P06956	Entrez-Gene Id: 2777477		
Product Usage Information	Application			Dilution			
	Western Blotting			1:1000			
	Flow Cytometry (Fixed/Permeabilized) 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	<ol> <li>Abremski, K. et al. (1983) <i>Cell</i> 32, 1301-11.</li> <li>Sternberg, N. et al. (1981) <i>Cold Spring Harb Symp Quant Biol</i> 45 Pt 1, 297-309.</li> <li>Abremski, K. and Hoess, R. (1984) <i>J Biol Chem</i> 259, 1509-14.</li> <li>Qin, M. et al. (1994) <i>Proc Natl Acad Sci U S A</i> 91, 1706-10.</li> <li>Lakso, M. et al. (1992) <i>Proc Natl Acad Sci U S A</i> 89, 6232-6.</li> <li>Guo, F. et al. (1997) <i>Nature</i> 389, 40-6.</li> </ol>						
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 FC-FP: Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivity Key	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>						
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