

**EGF Receptor (L858R Mutant Specific)
(43B2) Rabbit mAb (Biotinylated)**

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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	H	Endogenous	175	Rabbit IgG	#P00533	1956

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. <i>Do not aliquot the antibody.</i>	
Specificity/Sensitivity	EGFR (L858R Mutant Specific) (43B2) Rabbit mAb (Biotinylated) detects endogenous levels of EGFR mutant L858R protein. The antibody may cross-react with wildtype EGFR and other HER family members when highly over-expressed. Careful titration of this antibody may be required to obtain optimal specificity.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to L858R mutant sequence of human EGF receptor.	
Description	This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated EGFR (L858R Mutant Specific) (43B2) Rabbit mAb #3197.	
Background	The epidermal growth factor (EGF) receptor is a 170 kDa transmembrane tyrosine kinase that belongs to the HER/ErbB protein family. Research studies have shown that somatic mutations in the tyrosine kinase domain of EGF receptor (EGFR) are present in a subset of lung adenocarcinomas that respond to EGFR inhibitors, such as gefitinib and erlotinib (1-3). Two types of mutations account for approximately 90% of mutated cases: a specific point mutation, L858R, that occurs in exon 21 and short in-frame deletions in exon 19 (4,5). The most frequent exon 19 deletion is E746-A750, accounting for 90% of lesions at this site, although some rare variants occur.	
Background References	<ol style="list-style-type: none"> Lynch, T.J. et al. (2004) <i>N Engl J Med</i> 350, 2129-39. Pao, W. et al. (2004) <i>Proc Natl Acad Sci USA</i> 101, 13306-11. Haber, D.A. et al. (2005) <i>Cold Spring Harb Symp Quant Biol</i> 70, 419-26. Kosaka, T. et al. (2004) <i>Cancer Res</i> 64, 8919-23. Riely, G.J. et al. (2006) <i>Clin Cancer Res</i> 12, 7232-41. 	

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human
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