## 43197

## EGF Receptor (L858R Mutant Specific) (43B2) Rabbit mAb



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

<b>Applications:</b> W, W-S, IP, IHC-P, IF-IC, FC-FP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 175	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P00533	Entrez-Gene Id: 1956
Product Usage		Application				Dilution
Information		Western Blotting				1:1000
		Simple Western™				1:250
		Immunoprecipitation	1			1:200
		Immunohistochemis	try (Paraffin)			1:100
		Immunofluorescence	e (Immunocytochem	istry)		1:400
		Flow Cytometry (Fixed	d/Permeabilized)			1:100
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA	A and azide free) ver	sion of this product see	product #28110.	
Specificity/Sensitivity		EGFR (L858R Mutant Specific) (43B2) Rabbit mAb 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.				
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> <li>Lynch, T.J. et al. (2004) N Engl J Med 350, 2129-39.</li> <li>Pao, W. et al. (2004) Proc Natl Acad Sci USA 101, 13306-11.</li> <li>Haber, D.A. et al. (2005) Cold Spring Harb Symp Quant Biol 70, 419-26.</li> <li>Kosaka, T. et al. (2004) Cancer Res 64, 8919-23.</li> <li>Riely, G.J. et al. (2006) Clin Cancer Res 12, 7232-41.</li> </ol>				
Species Reactivi	ty	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	, western blot).
Western Blot Bu	ffer	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	•	<b>W:</b> Western Blotting <b>W-S:</b> Simple Western <sup>™</sup> <b>IP:</b> Immunoprecipitation <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity		<b>H:</b> Human				

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