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## EGF Receptor (E746-A750del Specific) (D6B6) XP® Rabbit mAb (PE Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H	Endogenous	Rabbit IgG	#P00533	1956
<b>Product Usage Information</b>	<b>Application</b>				<b>Dilution</b>
	Flow Cytometry (Fixed/Permeabilized)				1:50
<b>Storage</b>	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.				
<b>Specificity/Sensitivity</b>	EGF Receptor (E746-A750del Specific) (D6B6) XP® Rabbit mAb (PE Conjugate) detects endogenous levels of EGFR E746-A750del mutant protein.				
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to E746-A750del mutant sequence of human EGFR.				
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated EGF Receptor (E746-A750del Specific) (D6B6) XP® Rabbit mAb #2085.				
<b>Background</b>	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.				
<b>Background References</b>	1. Lynch, T.J. et al. (2004) <i>N Engl J Med</i> 350, 2129-39. 2. Pao, W. et al. (2004) <i>Proc Natl Acad Sci USA</i> 101, 13306-11. 3. Haber, D.A. et al. (2005) <i>Cold Spring Harb Symp Quant Biol</i> 70, 419-26. 4. Kosaka, T. et al. (2004) <i>Cancer Res</i> 64, 8919-23. 5. 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).

**Applications Key** **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

**Cross-Reactivity Key** **H:** Human

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