



**Cell Signaling**  
TECHNOLOGY®

**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
www.cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C

#2085

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

**For Research Use Only. Not For Use In Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IHC-P, IF-P, IF-IC, F	H	Endogenous	175	Rabbit IgG	P00533	1956

## Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:100
Immunohistochemistry (Paraffin)	1:200
Immunofluorescence (Paraffin)	1:250
Immunofluorescence (Immunocytochemistry)	1:250
Flow Cytometry	1:1000

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.

- Lynch, T.J. et al. (2004) *N Engl J Med* 350, 2129-39.
- Pao W et al. (2004) *Proc Natl Acad Sci U S A* 101, 13306-11
- Haber, D.A. et al. (2005) *Cold Spring Harb Symp Quant Biol* 70, 419-26.
- Kosaka, T. et al. (2004) *Cancer Res* 64, 8919-23.
- Riely, G.J. et al. (2006) *Clin Cancer Res* 12, 7232-41.

## 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

EGF Receptor (E746-A750del Specific) (D6B6) XP® Rabbit mAb detects endogenous levels of EGFR E746-A750del mutant protein.

**Species Reactivity:**  
Human

## Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to E746-A750del mutant sequence of human EGFR.

## Background

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**IMPORTANT:** For primary antibodies recommended for western blotting applications, we recommend incubating the membrane with diluted antibody at 4°C with gentle shaking overnight. Please refer to the western blot protocol found on the product web page for the antibody-specific diluent recommendation.

**APPLICATIONS KEY** WB: Western Blot IP: Immunoprecipitation IHC: Immunohistochemistry ChIP: Chromatin Immunoprecipitation IF: Immunofluorescence F: Flow Cytometry E-P: ELISA-Peptide

**CROSS-REACTIVITY KEY** H: human M: mouse R: rat Hm: hamster Mk: monkey Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse All: all species expected

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