Store at +4C	EGF Receptor (D38B1) XP <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 555 Conjugate)		Cell Signaling	
Stor		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: Reactiv		UniProt ID: Entrez-Gene #P00533 1956	ld:
Product Usage	Application	Dilution	
Information	Immunofluorescence (Immunocytochemistry)	1:50	
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg antibody. Protect from light. Do not freeze.	/ml BSA. Store at 4°C. Do not aliquot the	9
Specificity / Sensitivity	EGF Receptor (D38B1) XP <sup>®</sup> Rabbit mAb (Alexa Fluor <sup>®</sup> 555 Conj EGF receptor protein. The antibody does not cross-react with oth cross-reactivity by IF-IC is human only.	s ,	I
Source / Purification	Monoclonal antibody is produced by immunizing animals with a for domain of human EGF receptor. The antibody was conjugated to conditions with an F/P ratio of 2-6.		
Product Description	This Cell Signaling Technology <sup>®</sup> antibody is conjugated to Alexa house for immunofluorescent analysis in human cells. The antibo species cross-reactivity as the unconjugated EGF Receptor (D38	dy is expected to exhibit the same	
Background	The epidermal growth factor (EGF) receptor is a transmembrane HER/ErbB protein family. Ligand binding results in receptor dimen- downstream signaling, internalization, and lysosomal degradation (EGFR) at Tyr845 in the kinase domain is implicated in stabilizing active state enzyme, and providing a binding surface for substrat phosphorylation of EGFR at Tyr845 (5). The SH2 domain of PLC- activation of PLCy-mediated downstream signaling (6). Phosphor- major docking site for the adaptor protein c-Cbl, leading to recept following EGFR activation (7,8). The GRB2 adaptor protein binds A pair of phosphorylated EGFR residues (Tyr1148 and Tyr1173) protein, with both sites involved in MAP kinase signaling activation specific serine and threonine residues attenuates EGFR kinase a Ser1046 and Ser1047 are phosphorylated by CaM kinase II; mut upregulated EGFR tyrosine autophosphorylation (10).	ization, autophosphorylation, activation of n (1,2). Phosphorylation of EGF receptor the activation loop, maintaining the e proteins (3,4). c-Src is involved in y binds at phospho-Tyr992, resulting in ylation of EGFR at Tyr1045 creates a or ubiquitination and degradation activated EGFR at phospho-Tyr1068 (9) provide a docking site for the Shc scaffold n (2). Phosphorylation of EGFR at activity. EGFR carboxy-terminal residues	) <b>.</b>
Background References	<ol> <li>Hackel, P.O. et al. (1999) <i>Curr Opin Cell Biol</i> 11, 184-9.</li> <li>Zwick, E. et al. (1999) <i>Trends Pharmacol Sci</i> 20, 408-12.</li> <li>Cooper, J.A. and Howell, B. (1993) <i>Cell</i> 73, 1051-4.</li> <li>Hubbard, S.R. et al. (1994) <i>Nature</i> 372, 746-54.</li> <li>Biscardi, J.S. et al. (1999) <i>J Biol Chem</i> 274, 8335-43.</li> <li>Emlet, D.R. et al. (1997) <i>J Biol Chem</i> 272, 4079-86.</li> <li>Levkowitz, G. et al. (1999) <i>Mol Cell</i> 4, 1029-40.</li> <li>Ettenberg, S.A. et al. (1999) <i>Oncogene</i> 18, 1855-66.</li> <li>Rojas, M. et al. (1996) <i>J Biol Chem</i> 271, 27456-61.</li> <li>Feinmesser, R.L. et al. (1999) <i>J Biol Chem</i> 274, 16168-73.</li> </ol>		
Species Reactivity	Species reactivity is determined by testing in at least one approve	d application (e.g., western blot).	
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry)		
Cross-Reactivity Key			

1/14/24, 11:33 AM	EGF Receptor (D38B1) XP® Rabbit mAb (Alexa Fluor® 555 Conjugate) (#5108) Datasheet Without Imag
	<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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