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EGF Receptor vIII (D6T2Q) XP[®] Rabbit



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Applications: IHC-P, IF-IC	Reactivity: H	Sensitivity: Endogenous (IHC-P), Transfected (IF)	Source/Isotype: Rabbit IgG	UniProt ID: #P00533	Entrez-Gene Id: 1956
Product Usage Information		Application Immunohistochemistry (P Immunofluorescence (Imr			Dilution 1:200 1:3200
Storage		Supplied in 10 mM sodium 0.02% sodium azide. Store			SA, 50% glycerol and less than
	•.	For a carrier free (BSA and			
Specificity/Sensitiv	-	EGF Receptor vIII (D6T2Q) Receptor vIII protein by im			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human EGF Receptor vIII protein.			
Background		HER/ErbB protein family. L activation of downstream s of EGF receptor (EGFR) at T maintaining the active stat is involved in phosphorylar resulting in activation of Pl creates a major docking sii degradation following EGF phospho-Tyr1068 (9). A pai site for the Shc scaffold pre Phosphorylation of EGFR a EGFR carboxy-terminal res of either of these serines r	igand binding results in signaling, internalizatio Tyr845 in the kinase dor the enzyme, and providin tion of EGFR at Tyr845 (LCy-mediated downstre te for the adaptor prote R activation (7,8). The G ir of phosphorylated EG otein, with both sites in t specific serine and the idues Ser1046 and Ser1 esults in upregulated EG is a truncated, constitut	n receptor dimerization, and lysosomal deg main is implicated in ag a binding surface for 5). The SH2 domain of am signaling (6). Pho ein c-Cbl, leading to re GRB2 adaptor protein FR residues (Tyr1148 volved in MAP kinase reconine residues atte 047 are phosphoryla GFR tyrosine autopho tively active mutant f	gradation (1,2). Phosphorylation stabilizing the activation loop, for substrate proteins (3,4). c-Src of PLCy binds at phospho-Tyr992, osphorylation of EGFR at Tyr1045 eceptor ubiquitination and binds activated EGFR at a and Tyr1173) provide a docking e signaling activation (2). nuates EGFR kinase activity. ted by CaM kinase II; mutation osphorylation (10).
		glioblastoma, where it is expressed at a frequency of 25-30%. Although complicated by the fact that it is often co-expressed with amplified EGFR, EGFRvIII is a potential therapeutic target (13).			
Background Refer	ences	1. Hackel, P.O. et al. (1999) 2. Zwick, E. et al. (1999) 3. Cooper, J.A. and Howell, 4. Hubbard, S.R. et al. (1999) 5. Biscardi, J.S. et al. (1999) 6. Emlet, D.R. et al. (1997) 7. Levkowitz, G. et al. (1997) 8. Ettenberg, S.A. et al. (1998) 9. Rojas, M. et al. (1996) <i>J</i> 10. Feinmesser, R.L. et al. (1990) 12. Wong, A.J. et al. (1992) 13. Padfield, E. et al. (2015)	<i>Curr Opin Cell Biol</i> 11, ends Pharmacol Sci 20, 4 B. (1993) <i>Cell</i> 73, 1051-4 4) <i>Nature</i> 372, 746-54. <i>J Biol Chem</i> 274, 8335-4 <i>Biol Chem</i> 272, 4079-8 9) <i>Mol Cell</i> 4, 1029-40. 99) <i>Oncogene</i> 18, 1855- <i>Biol Chem</i> 271, 27456-61 1999) <i>J Biol Chem</i> 274, 1) <i>Proc Natl Acad Sci U S</i> <i>Proc Natl Acad Sci U S</i>	184-9. 408-12. 4. 43. 6. -66. 16168-73. <i>A</i> 87, 8602-6.	
Species Reactivity		Species reactivity is determ	nined by testing in at lea	ast one approved ap	olication (e.g., western blot).
Applications Key		IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)			

Cross-Reactivity Key	H: Human			
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