HER4/ErbB4 (111B2) Rabbit mAb



Orders: 877-616-CELL (2355)

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info@cellsignal.com cellsignal.com Web:

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 180	Source/Isotype: Rabbit IgG	UniProt ID: #Q15303	Entrez-Gene Id: 2066
Product Usage Information		Application Western Blotting Immunoprecipitation		Dilution 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ 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 and azide free) version of this product see product #72663.				
Specificity/Sensitivity		HER4/ErbB4 (111B2) Rabbit mAb detects endogenous levels of ErbB4 protein. This antibody does not cross-react with other ErbB family members.				
Species predict based on 100% homology		Rat				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy-terminus of human ErbB4.				
Background		Research studies have implicated the HER/ErbB receptor tyrosine kinase family in normal development, cardiac function and cancer (1,2). HER4/ErbB4, like other family members, has four ectodomains, a single transmembrane domain and a cytoplasmic tail containing the active tyrosine kinase domain (3). By binding to neuregulins and/or EGF family ligands, ErbB4 forms either a homodimer or heterodimer with other ErbB family members, which results in receptor activation and signaling (3). ErbB4 is ubiquitously expressed with the highest expression occurring in brain and heart. The expression of ErbB4 in breast cancer, pediatric brain cancer and other types of carcinomas has been reported in research studies suggesting that ErbB4 expression is involved in both normal tissue development and carcinogenesis (3).				
Background References		1. Holbro, T. and Hynes, N.E. (2004) <i>Annu Rev Pharmacol Toxicol</i> 44, 195-217. 2. Roskoski, R. (2004) <i>Biochem Biophys Res Commun</i> 319, 1-11. 3. Carpenter, G. (2003) <i>Exp Cell Res</i> 284, 66-77.				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		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		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse				
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