Phospho-HER4/ErbB4 (Tyr984)/EGFR (Tyr978) Antibody					Cell Signaling TECHNOLOGY®	
					Orders:	877-616-CELL (2355) orders@cellsignal.com
0					Support:	877-678-TECH (8324)
#3790					Web:	info@cellsignal.com cellsignal.com
#				3 Trask	Lane Danvers Ma	ssachusetts 01923 USA
For Research Use On	nly. Not for Use	in Diagnostic Proc	edures.			
Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 180	Source: Rabbit	UniProt ID: #Q15303	Entrez-Gene Id: 2066
Product Usage		Application			Dilution	
Information		Western Blotting			1:1000	
Storage		Supplied in 10 mM sodi 20°C. Do not aliquot the	u u	5), 150 mM NaCl, 10	00 μg/ml BSA and 50%	ó glycerol. Store at –
Specificity / Sensitivity		Phospho-HER4/ErbB4 (Tyr984)/EGFR (Tyr978) Antibody detects endogenous levels of HER4/ErbB4 protein only when phosphorylated on Tyr984 and EGFR only when phosphorylated on Tyr978. This antibody may cross-react with other tyrosine-phosphorylated proteins.				
Species predicte react based on 1 sequence homo	L00%	Mouse, Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr984 of human HER4/ErbB4. Antibodies are purified by protein A and peptide affinity chromatography.				
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				

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).

family members, which results in receptor activation and signaling (3). ErbB4 is ubiquitously expressed

Background References 1. Holbro, T. and Hynes, N.E. (2004) Annu Rev Pharmacol Toxicol 44, 195-217. 2. Roskoski, R. (2004) Biochem Biophys Res Commun 319, 1-11. 3. Carpenter, G. (2003) Exp Cell Res 284, 66-77.

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity** IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, Western Blot Buffer 0.1% Tween® 20 at 4°C with gentle shaking, overnight. WB: Western Blotting **Applications Key Cross-Reactivity Key** H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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 GP: Guinea Pig Rab: rabbit All: all species expected

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