## Phospho-HER4/ErbB4 (Tyr1284)/EGFR (Tyr1173) (21A9) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 180	Source/Isotype: Rabbit	UniProt ID: #Q15303	Entrez-Gene Id: 2066	
Product Usage Information	Aį	oplication			Dilution		
	W	estern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
Specificity / Sensitivity  Phospho-HER4/ErbB4 (Tyr1284)/EGFR (Tyr1173) (21A9) Rabbit mAb detects endogenous levels of HER4/ErbB4 protein only when phosphorylated on Tyr1284 and EGFR only when phosphorylated or Tyr1173. This antibody may cross-react with other tyrosine-phosphorylated proteins.							
Species predicted to react based on 1009 sequence homology	%	use, Rat					
Source / Purification	•	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1284 of human HER4/ErbB4.					
Background	car trai to i fan witi ped	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 Refere		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.					

- Roskoski, R. (2004) Biochem Biophys Res Commun 319,
- 3. Carpenter, G. (2003) Exp Cell Res 284, 66-77.

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved 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** 

**WB:** Western Blotting

**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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1/1/24. 11:19 AM Phospho-HER4/ErbB4 (Tyr1284)/EGFR (Tyr1173) (21A9) Rabbit mAb (#4757) Datasheet Without Images C...

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