

Phospho-HER2/ErbB2 (Thr686) Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 185	Source/Isotype: Rabbit	UniProt ID: #P04626	Entrez-Gene Id 2064
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-HER2/ERBB2 (Thr686) Antibody recognizes endogenous levels of HER2/ERBB2 protein only when phosphorylated at Thr686.				
Species predict based on 100% homology	ed to react sequence	Mouse, Rat				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phospho-peptide corresponding to residues surrounding Thr686 of human HER2/ERBB2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		intrinsic tyrosine kina activated in the abser other ErbB family medetected in almost 40 Tyr1112 leads to ErbB therapeutic target in the of ErbB2 degradation Phosphorylation of the	se activity (1). While nee of a ligand wher mbers (2). Amplifica % of human breast 2 poly-ubiquitinatic the treatment of bre by the c-Cbl-regula	es a 185 kDa transmemlerbB2 lacks an identified overexpressed and threation of the <i>ErbB2</i> gene accancers (3). Binding of the sand enhances degrade east cancer and other cated proteolytic pathway sidue Tyr877 of ErbB2 (4).	ed ligand, ErbB2 kin ough heteromeric a and overexpression the c-Cbl ubiquitin li lation of this kinase arcinomas and targe is one potential the	ase activity can be associations with of its product are gase to ErbB2 at (4). ErbB2 is a key eting the regulation
		are Tyr1248 and Tyr12 signal transduction pa	gulating ErbB2 biolo 221/1222; phosphor	ogical activity. The major ylation of these sites co	r autophosphorylat	16 of pp60c-Src) ion sites in ErbB2
		are Tyr1248 and Tyr12 signal transduction particles of the signal transduction particles of the signal transduction of the signal	gulating ErbB2 biolo 221/1222; phosphor athway (1,5). ne cytoplasmic juxta o phosphorylate Erb be context dependo bB2 at Thr686 enha	ogical activity. The major	r autophosphorylat puples ErbB2 to the bB2. PKC, PKA, and functional conseque esearch study repor ceptor activation (6)	e16 of pp60c-Src) ion sites in ErbB2 Ras-Raf-MAP kinase PKG II kinases ences of ted that), while a separate

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 W: Western Blotting

Cross-Reactivity Key

H: Human

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