

Monoclonal Antibody to

erbB2/Her2 (phospho-Ser 1113)**clone 9E10**

Order No.:	0139-100/erbB2-9E10	Last Modified 21.02.2005
Size (µg)	100	
Lot No.:	0139S	
Host:	Mouse	
Isotype:	IgG1	
Immunogen:	phosphopeptide conjugate	
Epitope:	phosphoserine 1113	

Species Reactivity

Human	Mouse	Rat	Dog
<input type="checkbox"/> yes	<input type="checkbox"/> yes	<input type="checkbox"/> ND	<input type="checkbox"/> ND

Background & Specificity:

ErbB2 is a receptor tyrosine kinase belonging to the EGFR/erbB receptor family. ErbB2 is commonly overexpressed in human adenocarcinomas.

In EGFR, serine phosphorylation of the carboxyterminal domain at Ser 1047 leads to ligand-dependent EGFR desensitization. Phosphorylation of erbB2 at serine 1113 leads to comparable effects.

However, if serine 1113 is phosphorylated, the neighbouring tyrosine 1112 may not be phosphorylated due to sterical hindrance, thus inhibiting cbl-mediated receptor degradation.

In breast cancer, phosphorylation of erbB2 at ser 1113 has been correlated with ErbB2 overexpression and a poor prognosis. Thus the phosphorylation status of serine 1113 in erbB2 represents a novel and informative biomarker of cancer cell biology and tumor behavior. (Mol. Cell Biochem. 218: 47-54, 2001).

Mab erbB2-9E10 specifically recognizes erbB2 phosphorylated at Serine 1113 at 180 kDa.

Related products:

anti-EGFR, clone 1H9 - specifically interacting with EGFR phosphorylated at Serine 1047 (R Y S pS D S T)

anti-erbB2, clone 10B4 - specifically interacting with Erb2 phosphorylated at Tyrosine 1248 (N P E pY L G L)

Purification:	The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.
Formulation:	lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.
Reconstitution:	Reconstitute with 1 ml H ₂ O (15 min, RT).
Stability:	Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
	Avoid repeated freeze / thaw cycles
Positive Control:	Cell lysate from vanadate-treated A431 cells (#0832)
Immunoblotting:	0.5 µg/ml for HRPO/ECL detection Recommended blocking buffer CPPT: 0.5% (w/v) casein, 1% (w/v) PEG 4000, 1% (w/v) Polyvinylpyrrolidone (PVP), 0.1% (v/v) Tween 20, 10 mM Tris/HCl, pH 7.4, 150 mM NaCl
Immunoprecipitation	ND
Immunocytochemistry	ND
ELISA:	use at 0.1 µg/ml

All products are supplied for research and investigational use only. Not for use in humans.