Datasheet for ABIN5068126

ErbB2/Her2 ELISA Kit

Go to Product page

Overview

Quantity:	1 kit
Target:	ErbB2/Her2
Binding Specificity:	pTyr1221, pTyr1222
Reactivity:	Human
Application:	ELISA

Product Details

Sample Type:	Cell Lysate
Detection Method:	Colorimetric
Cross-Reactivity (Details):	Calculated cross reactivity: Hu
Characteristics:	ErbB2, phosphorylated (Tyr1221/1222), Human (c-erbB2, HER2), ELISA Kit

Target Details

Target:	ErbB2/Her2
Alternative Name:	ErbB2 (ErbB2/Her2 Products)
Background:	The ErbB2 (HER2) proto-oncogene encodes a transmembrane receptor-like glycoprotein of 185kD with intrinsic tyrosine kinase activity (1). ErbB2 does not have any known ligand. However, the kinase activity of ErbB2 can be activated without ligand if it is overexpressed and by heteromeric association with other members of the ErbB family (2). Amplification of the ErbB2 gene and overexpression of its product are detected in almost 40 % of human breast cancers (3). Binding of the c-Cbl ubiquitin ligase to Tyr1112 of ErbB2 leads to poly-

Target Details

	ubiquitination of ErbB2 and enhances its degradation (4). ErbB2 is one of the major targets for the treatment of breast cancer and other carcinomas. Direction of ErbB2 to the c-Cbl-regulated proteolytic pathway may have therapeutic potential. Tyr877 of ErbB2 is homologous to Tyr416 of pp60c-Src, located in the kinase domain. Phosphorylation of this site may be involved in regulation of ErbB2 biological activity. Tyr1248 and Tyr1221/1222 are the major autophosphorylation sites in ErbB2. Phosphorylation of these sites couples ErbB2 to the Ras-Raf-MAP kinase signal transduction pathway (1,5).
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Skeletal Muscle Fiber Development

Application Details

Restrictions:	For Research Use only

Handling

Storage:	-20 °C
Storage Comment:	-20°C

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