Datasheet for ABIN967787

anti-ErbB2/Her2 antibody (AA 182-373)

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Overview

Quantity:	150 µg
Target:	ErbB2/Her2
Binding Specificity:	AA 182-373
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This ErbB2/Her2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Rat ErbB2 aa. 182-373
Clone:	42-c-erbB
Isotype:	IgG2b
Cross-Reactivity:	Human
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Please refer to us for technical protocols.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	ErbB2/Her2
Alternative Name:	c-erbB-2 (ErbB2/Her2 Products)
Background:	ErbB2 (Neu or Her-2) is a member of the erbB family of growth factor receptors. These factors possess constitutive tyrosine kinase activity and are commonly overexpressed in breast and ovarian carcinomas. While other erbB family members' ligands, such a EGF and NDF, are well characterized, a natural ligand for erbB2 remains unknown. ErbB2 forms heterodimers with erbB1/EGFR, erbB3, and erbB4, and can modulate their ligand affinities. Thus, erbB2 alters the intracellular responses elicited by EGF and NDF. This control is due to the fact that erbB2, when in complex with another erbB family receptor, decelerates the rate of ligand dissociation. Therefore, erbB2 may act as a signaling subunit for other receptors rather than a true growth factor receptor. Due to high sequence homology, this antibody may cross-react with the 180 kDa EGFR. Synonyms: Neu, Her-2
Molecular Weight:	185 kDa
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Skeletal Muscle Fiber Development

Application Details

Comment:	Related Products: ABIN968533, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

Product cited in:

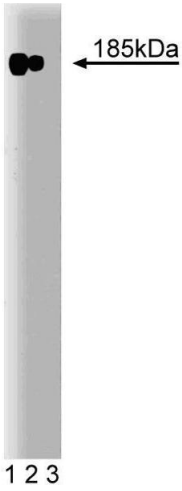
Dillon, Creer, Kerr, Kümin, Dickson: "Basolateral targeting of ERBB2 is dependent on a novel bipartite juxtamembrane sorting signal but independent of the C-terminal ERBIN-binding domain." in: **Molecular and cellular biology**, Vol. 22, Issue 18, pp. 6553-63, (2002) (PubMed).

Piechocki, Pilon, Wei: "Complementary antitumor immunity induced by plasmid DNA encoding secreted and cytoplasmic human ErbB-2." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 167, Issue 6, pp. 3367-74, (2001) (PubMed).

Xu, Mimnaugh, Rosser, Nicchitta, Marcu, Yarden, Neckers: "Sensitivity of mature Erbb2 to geldanamycin is conferred by its kinase domain and is mediated by the chaperone protein Hsp90." in: **The Journal of biological chemistry**, Vol. 276, Issue 5, pp. 3702-8, (2001) (PubMed).

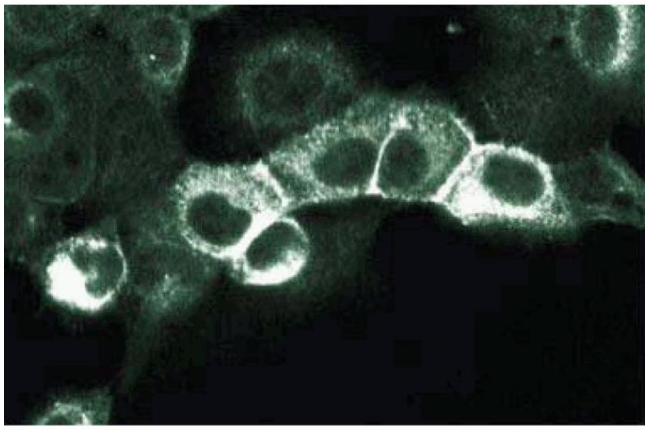
Graus-Porta, Beerli, Hynes: "Single-chain antibody-mediated intracellular retention of ErbB-2 impairs Neu differentiation factor and epidermal growth factor signaling." in: **Molecular and cellular biology**, Vol. 15, Issue 3, pp. 1182-91, (1995) (PubMed).

Szöllösi, Balázs, Feuerstein, Benz, Waldman: "ERBB-2 (HER2/neu) gene copy number, p185HER-2 overexpression, and intratumor heterogeneity in human breast cancer." in: **Cancer research**, Vol. 55, Issue 22, pp. 5400-7, (1995) (PubMed).



Western Blotting

Image 1. Western blot analysis ErbB2 on a A431 cell lysate (Human epithelial carcinoma, ATCC CRL-1555). Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10,000 dilution of the Mouse Anti-Human ErbB2 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of A431 cells (Human epithelial carcinoma, ATCC CRL-1555).

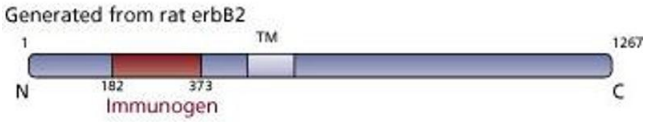


Image 3.

Please check the product details page for more images. Overall 4 images are available for ABIN967787.