

Datasheet for ABIN1881305

anti-ErbB2/Her2 antibody (pTyr1248)**3** Images**5** Publications[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	ErbB2/Her2
Binding Specificity:	pTyr1248
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ErbB2/Her2 antibody is un-conjugated
Application:	Western Blotting (WB), Dot Blot (DB)

Product Details

Immunogen:	This ErbB2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Y1248 of human ErbB2.
Clone:	RB40739
Isotype:	Ig Fraction
Purification:	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is first purified by protein G affinity chromatography. Then, the antibody fraction is peptide affinity purified in a 2-step procedure with control and phosphorylated peptides. The phospho-specific antibody is eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.

Target Details

Target:	ErbB2/Her2
Alternative Name:	ERBB2 (ErbB2/Her2 Products)
Background:	ErbB2 is a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors.
Molecular Weight:	137910
NCBI Accession:	NP_001005862 , NP_004439
UniProt:	P04626
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Skeletal Muscle Fiber Development

Application Details

Application Notes:	WB: 1:8000. WB: 1:8000. DB: 1:500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide. This antibody is first purified by protein G affinity chromatography. Then, the antibody fraction is peptide affinity purified in a 2-step procedure with control and phosphorylated peptides. The phospho-specific antibody is eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

Publications

Product cited in: Brandt, Mikesch, Simon, Rötger, Kemming, Schier, Sauter, Bürger: "Selective expression of a splice variant of decay-accelerating factor in c-erbB-2-positive mammary carcinoma cells showing increased transendothelial invasiveness." in: **Biochemical and biophysical research communications**, Vol. 329, Issue 1, pp. 318-23, (2005) ([PubMed](#)).

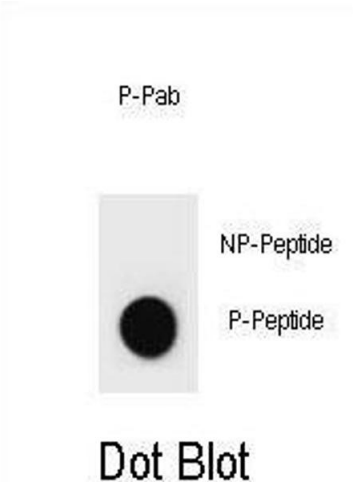
Ghatak, Misra, Toole: "Hyaluronan constitutively regulates ErbB2 phosphorylation and signaling complex formation in carcinoma cells." in: **The Journal of biological chemistry**, Vol. 280, Issue 10, pp. 8875-83, (2005) ([PubMed](#)).

Provinciali, Re, Donnini, Orlando, Bartozzi, Di Stasio, Smorlesi: "Effect of resveratrol on the development of spontaneous mammary tumors in HER-2/neu transgenic mice." in: **International journal of cancer. Journal international du cancer**, Vol. 115, Issue 1, pp. 36-45, (2005) ([PubMed](#)).

Yee, Young, Rosol, Vanbuskirk, Clinton: "Dietary (n-3) polyunsaturated fatty acids inhibit HER-2/neu-induced breast cancer in mice independently of the PPARgamma ligand rosiglitazone." in: **The Journal of nutrition**, Vol. 135, Issue 5, pp. 983-8, (2005) ([PubMed](#)).

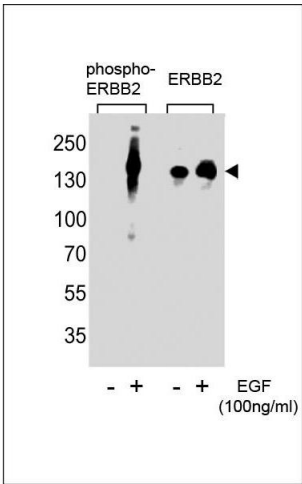
Beckers, Herrmann, Rieger, Drobyshev, Horsch, Hrabé de Angelis, Seliger: "Identification and validation of novel ERBB2 (HER2, NEU) targets including genes involved in angiogenesis." in: **International journal of cancer. Journal international du cancer**, Vol. 114, Issue 4, pp. 590-7, (2005) ([PubMed](#)).

Images



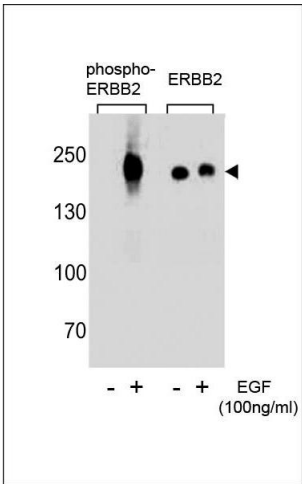
Dot Blot

Image 1. Dot blot analysis of anti-Phospho-ErbB2-p(M) Phospho-specific Pab (ABIN1881305 and ABIN2850445) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5 µg per ml.



Western Blotting

Image 2. Western blot analysis of extracts from A431 cells, untreated or treated with EGF, 100 ng/mL, using phospho-ERBB2-(left) or ERBB2 Antibody (right)



Western Blotting

Image 3. Western blot analysis of extracts from A431 cells, untreated or treated with EGF, 100 ng/mL, using phospho-ERBB2-p(L)(left) or ERBB2 Antibody (right)