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Product datasheet

Anti-ErbB3 / HER3 (phospho Y1328) antibody ab131444

<u>**2 References**</u>   3 Images

Overview

Product name	Anti-ErbB3 / HER3 (phospho Y1328) antibody
Description	Rabbit polyclonal to ErbB3 / HER3 (phospho Y1328)
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide corresponding to Human ErbB3/ HER3 (phospho Y1328) conjugated to keyhole limpet haemocyanin. Synthetic phosphopeptide conjugated to KLH, surrounding the phosphorylation site of Tyrosine 1328 (P-D-Y(p)-W-H) of Human ErbB3/ HER3.

                          Run BLAST with   **Run BLAST with**

Positive control	A431 cell extract treated with EGF; MCF7 cells; Human breast carcinoma tissue.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 0.88% Sodium chloride, 50% Glycerol PBS is without Mg^{2+} and Ca^{2+}
Purity	Immunogen affinity purified
Purification notes	ab131444 was purified by using epitope specific phosphopeptide. Non-phospho specific

antibodies were removed by chromatography using non-phosphopeptide.

Clonality	Polyclonal
Isotype	IgG

Applications

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 185 kDa (predicted molecular weight: 148 kDa).
IHC-P		1/50 - 1/100.
ICC/IF		1/100 - 1/200.

Target

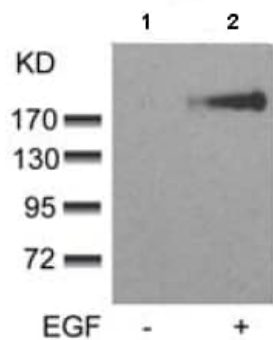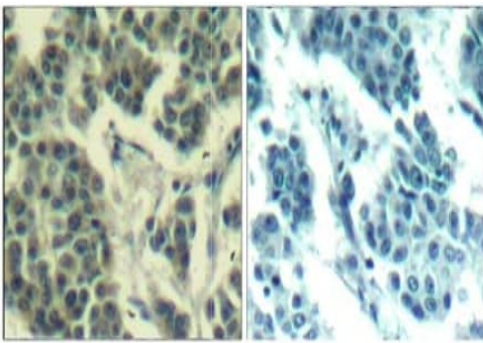|	
Function	Binds and is activated by neuregulins and NTAK.
Tissue specificity	Epithelial tissues and brain.
Involvement in disease	Defects in ERBB3 are the cause of lethal congenital contracture syndrome type 2 (LCCS2) [MIM:607598]; also called Israeli Bedouin multiple contracture syndrome type A. LCCS2 is an autosomal recessive neurogenic form of a neonatally lethal arthrogryposis that is associated with atrophy of the anterior horn of the spinal cord. The LCCS2 syndrome is characterized by multiple joint contractures, anterior horn atrophy in the spinal cord, and a unique feature of a markedly distended urinary bladder. The phenotype suggests a spinal cord neuropathic etiology.
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily. Contains 1 protein kinase domain.
Developmental stage	Overexpressed in a subset of human mammary tumors.
Domain	The cytoplasmic part of the receptor may interact with the SH2 or SH3 domains of many signal-transducing proteins.
Post-translational modifications	Ligand-binding increases phosphorylation on tyrosine residues and promotes its association with the p85 subunit of phosphatidylinositol 3-kinase.
Cellular localization	Secreted and Cell membrane.

Images

All lanes : Anti-ErbB3 / HER3 (phospho Y1328) antibody (ab131444) at 1/500 dilution

Lane 1 : A431 cell extract, untreated
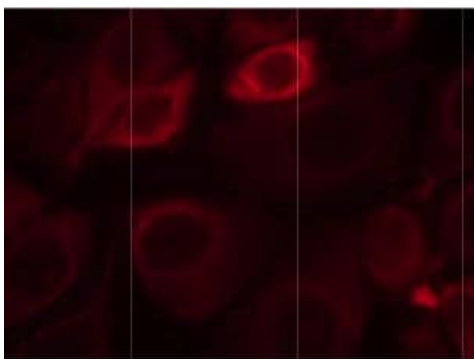**Lane 2 :** A431 cell extract, treated with EGF

Predicted band size: 148 kDa

Western blot - Anti-ErbB3 / HER3 (phospho Y1328) antibody (ab131444)

Immunohistochemical analysis of paraffin embedded Human breast carcinoma tissue labelling ErbB3 / HER3 (phospho Y1328) with ab131444 antibody at 1/50 dilution. The image on the right is treated with the synthesized peptide.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ErbB3 / HER3 (phospho Y1328) antibody (ab131444)

Immunofluorescence of methanol-fixed MCF7 cells labelling EErbB3 / HER3 (phospho Y1328) with ab131444 antibody at 1/100 dilution.

Immunocytochemistry/ Immunofluorescence - Anti-ErbB3 / HER3 (phospho Y1328) antibody (ab131444)

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