abcam

Product datasheet

Anti-ErbB3 / HER3 (phospho Y1222) antibody [EPR5807] ab133445

Recombinant RabMAb

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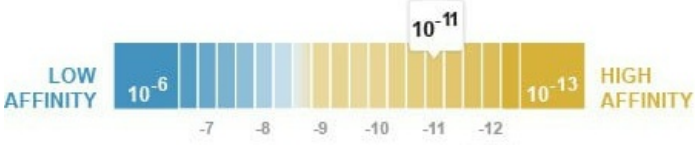
Overview

Product name	Anti-ErbB3 / HER3 (phospho Y1222) antibody [EPR5807]
Description	Rabbit monoclonal [EPR5807] to ErbB3 / HER3 (phospho Y1222)
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt or IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Lysate of SKBR3 cells treated with neuregulin.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	$K_D = 2.31 \times 10^{-11}$ M



Learn more about K_D

Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5807
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab133445 in the following tested applications.

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

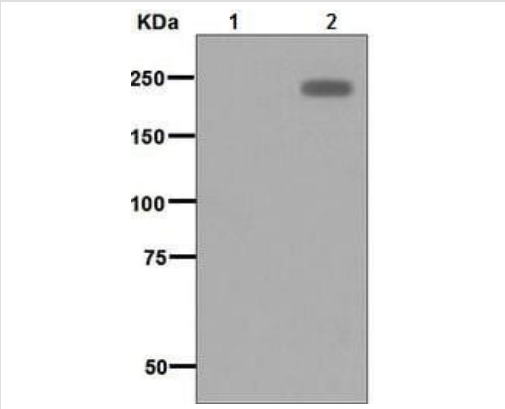
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 185 kDa (predicted molecular weight: 148 kDa).

Application notes Is unsuitable for Flow Cyt or IHC-P.

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



Western blot - Anti-ErbB3 / HER3 (phospho Y1222) antibody [EPR5807] (ab133445)

All lanes : Anti-ErbB3 / HER3 (phospho Y1222) antibody [EPR5807] (ab133445) at 1/1000 dilution

Lane 1 : SKBR3 cell lysate

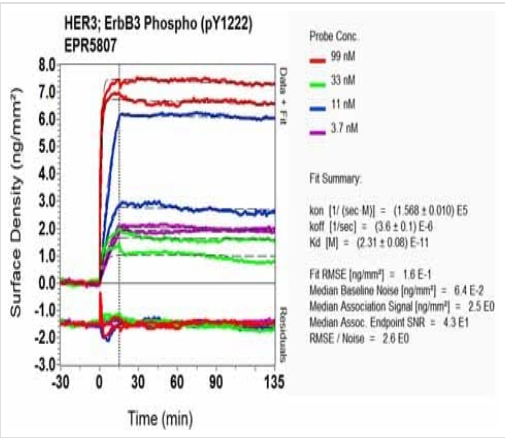
Lane 2 : Lysate of SKBR3 cells treated with neuregulin.

Secondary

All lanes : Goat anti-rabbit HRP conjugated antibody at 1/2000 dilution

Predicted band size: 148 kDa

Observed band size: 185 kDa

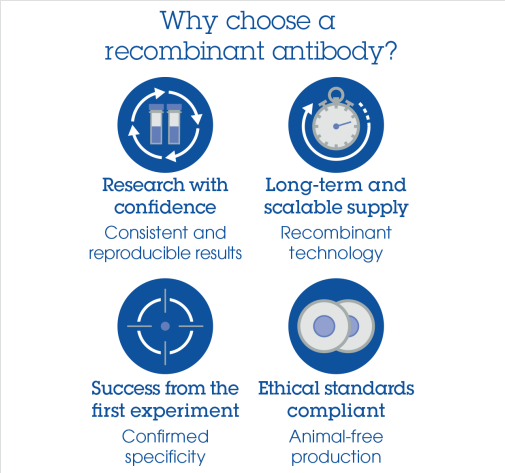


OI-RD Scanning - Anti-ErbB3 / HER3 (phospho Y1222) antibody [EPR5807] (ab133445)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



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