

Product datasheet

Anti-ErbB3 / HER3 antibody [E186] ab32121

KO VALIDATED Recombinant RabMAb

★★★★★ [2 Abreviews](#) [18 References](#) [5 Images](#)

Overview

Product name	Anti-ErbB3 / HER3 antibody [E186]
Description	Rabbit monoclonal [E186] to ErbB3 / HER3
Host species	Rabbit
Specificity	ab32121 recognises ErbB3/HER3. WB samples: should avoid boiling
Tested applications	Suitable for: WB Unsuitable for: ICC/IF, IHC or IP
Species reactivity	Reacts with: Rat, Human
Immunogen	Synthetic peptide within Human ErbB3/ HER3 aa 1300 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P21860
Positive control	MCF-7 cell lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - 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 .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal

Clone number	E186
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab32121 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

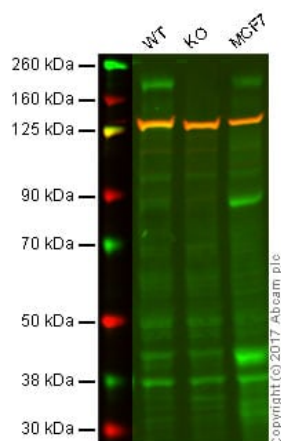
Application	Abreviews	Notes
WB	★★★★★ (2)	1/500 - 1/1000. Detects a band of approximately 185 kDa (predicted molecular weight: 149 kDa).

Application notes Is unsuitable for ICC/IF, IHC or IP.

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 antibody [E186]
(ab32121)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)

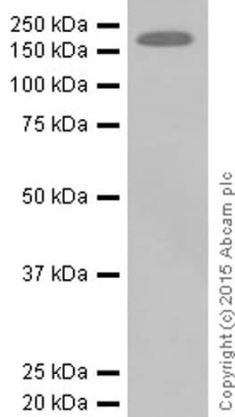
Lane 2: ERBB3 knockout HAP1 whole cell lysate (20 µg)

Lane 3: MCF7 whole cell lysate (20 µg)

Lanes 1 - 3: Merged signal (red and green). Green - ab32121 observed at 185 kDa. Red - loading control, [ab9484](#), observed at 37 kDa.

ab32121 was shown to specifically recognize ERBB3 in wild-type HAP1 cells along with additional cross-reactive bands. No band was observed when knock out samples were examined. Wild-type and ERBB3 knockout samples were subjected to SDS-PAGE.

Ab32121 and [ab18058](#) (Mouse anti Vinculin loading control) were incubated overnight at 4°C at 1/500 dilution and 1/20,000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1/20,000 dilution for 1 hour at room temperature before imaging.



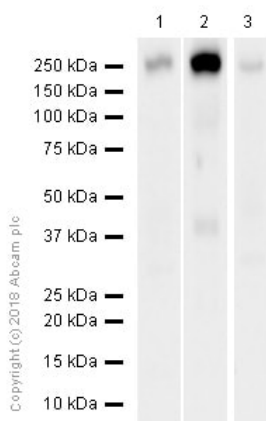
Western blot - Anti-ErbB3 / HER3 antibody [E186]
(ab32121)

Anti-ErbB3 / HER3 antibody [E186] (ab32121) at 1/1000 dilution + MDA-MB-435S (human ductal carcinoma) whole cell lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 149 kDa



Western blot - Anti-ErbB3 / HER3 antibody [E186] (ab32121)

All lanes : Anti-ErbB3 / HER3 antibody [E186] (ab32121) at 2.685 µg/ml (purified)

Lane 1 : MDA-MB-435S (human mammary gland ductal carcinoma melanocyte) whole cell lysate

Lane 2 : C6 (Rat glial tumor glial cell) whole cell lysate

Lane 3 : Rat brain lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 149 kDa

Exposure time: 37 seconds



Western blot - Anti-ErbB3 / HER3 antibody [E186] (ab32121)

Anti-ErbB3 / HER3 antibody [E186] (ab32121) at 1/500 dilution (unpurified) + MCF-7 cell lysate

Predicted band size: 149 kDa

Observed band size: 185 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-ErbB3 / HER3 antibody [E186] (ab32121)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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