

## Product datasheet

# Anti-ErbB3 / HER3 (phospho Y1197) antibody [EPR5806] - BSA and Azide free ab232057

Recombinant RabMAb

2 Images

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-ErbB3 / HER3 (phospho Y1197) antibody [EPR5806] - BSA and Azide free   |
| <b>Description</b>         | Rabbit monoclonal [EPR5806] to ErbB3 / HER3 (phospho Y1197) - BSA and Azide free  |
| <b>Host species</b>        | Rabbit  |
| <b>Tested applications</b> | <b>Suitable for:</b> WB   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.   |
| <b>Positive control</b>    | WB: SK-BR-3 cell lysate treated with neuregulin.  |
| <b>General notes</b>       | <p>ab232057 is the carrier-free version of <a href="#">ab133444</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with</p> |

these species. Please contact us for more information.

## Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| <b>Storage buffer</b>       | pH: 7.2<br>Constituent: PBS                   |
| <b>Carrier free</b>         | Yes   |
| <b>Purity</b>               | Protein A purified                            |
| <b>Clonality</b>            | Monoclonal                                    |
| <b>Clone number</b>         | EPR5806                                       |
| <b>Isotype</b>              | IgG   |

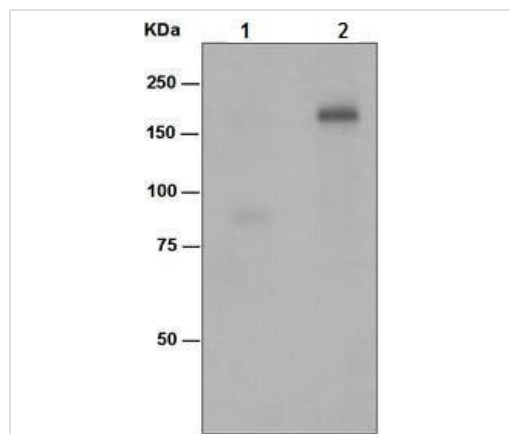
## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab232057 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   |
|-------------|-----------|---|
| <b>WB</b>   |           | Use at an assay dependent concentration. Detects a band of approximately 185 kDa (predicted molecular weight: 148 kDa). |

## Target

|   |   |
|---|---|
| <b>Function</b>                         | Binds and is activated by neuregulins and NTAK.   |
| <b>Tissue specificity</b>               | Epithelial tissues and brain.   |
| <b>Involvement in disease</b>           | 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. |
| <b>Sequence similarities</b>            | Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily. Contains 1 protein kinase domain.   |
| <b>Developmental stage</b>              | Overexpressed in a subset of human mammary tumors.  |
| <b>Domain</b>                           | The cytoplasmic part of the receptor may interact with the SH2 or SH3 domains of many signal-transducing proteins.  |
| <b>Post-translational modifications</b> | Ligand-binding increases phosphorylation on tyrosine residues and promotes its association with the p85 subunit of phosphatidylinositol 3-kinase.   |
| <b>Cellular localization</b>            | Secreted and Cell membrane.   |



Western blot - Anti-ErbB3 / HER3 (phospho Y1197) antibody [EPR5806] - BSA and Azide free (ab232057)

**All lanes :** Anti-ErbB3 / HER3 (phospho Y1197) antibody [EPR5806] ([ab133444](#)) at 1/10000 dilution

**Lane 1 :** SK-BR-3 (human mammary gland adenocarcinoma cell line) cell lysate

**Lane 2 :** SK-BR-3 (human mammary gland adenocarcinoma cell line) cell lysate treated with neuregulin

Lysates/proteins at 10 µg per lane.

### Secondary

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

**Predicted band size:** 148 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133444](#)).

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 (phospho Y1197) antibody [EPR5806] - BSA and Azide free (ab232057)

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

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