Product datasheet

Anti-ErbB 3 antibody ab5470

Overview

Product name  Anti-ErbB 3 antibody
Description  Rabbit polyclonal to ErbB 3
Host species  Rabbit
Tested applications  Suitable for: IHC-P, ELISA, WB
Species reactivity  Reacts with: Mouse, Human
Immunogen  Synthetic peptide conjugated to KLH, corresponding to amino acids 41-56 of Human Erb B3.
Positive control  Mouse brain lysate.

Properties

Form  Liquid
Storage instructions  Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer  Preservative: 0.09% Sodium azide
Constituent: PBS
Purity  Protein G purified
Purification notes  This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.
Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab5470 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td>1/1000.</td>
</tr>
</tbody>
</table>
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

Anti-ErbB 3 antibody (ab5470) + Mouse brain lysate

**Predicted band size:** 148 kDa

**Observed band size:** 155 kDa

*why is the actual band size different from the predicted?*

Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. HC = hepatocarcinoma.

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

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit [https://www.abcam.com/abpromise](https://www.abcam.com/abpromise) or contact our technical team.

**Terms and conditions**

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors