Product datasheet

Anti-HBEGF/DTR antibody ab92620

Overview

Product name: Anti-HBEGF/DTR antibody
Description: Rabbit polyclonal to HBEGF/DTR
Host species: Rabbit
Tested applications: Suitable for: ICC/IF, WB, ELISA
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide within Human HBEGF/DTR aa 50-150 conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary. Database link: Q99075
(Peptide available as ab104379)
Positive control: WB: Human stomach tissue lysate. ICC/IF: MG63 cells fixed with 4% Formaldehyde
General notes: This product was previously labelled as HB EGF

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Preservative: 0.02% Sodium Azide
Constituents: 1% BSA, PBS, pH 7.4
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab92620 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
May be involved in macrophage-mediated cellular proliferation. It is mitogenic for fibroblasts and smooth muscle but not endothelial cells. It is able to bind EGF receptors with higher affinity than EGF itself and is a far more potent mitogen for smooth muscle cells than EGF. Also acts as a diphtheria toxin receptor.

Sequence similarities
Contains 1 EGF-like domain.

Post-translational modifications
Several N-termini have been identified by direct sequencing. The forms with N-termini 63, 73 and 74 have been tested and found to be biologically active. O-linked glycan attachment sites were determined by Edman degradation, O-glycanase digest suggests mucin-type glycosylation (done in HB-EGF purified from histiocytic lymphoma cell line U-937).

Cellular localization
Cell membrane and Secreted > extracellular space. Mature HB-EGF is released into the extracellular space and probably binds to a receptor.

Application | Abreviews | Notes
--- | --- | ---
ICC/IF | Use a concentration of 5 µg/ml. |  
WB | Use a concentration of 1 µg/ml. Detects a band of approximately 20 kDa (predicted molecular weight: 23 kDa). |  
ELISA | Use at an assay dependent concentration. |  

Target

Images

ICC/IF image of ab92620 stained MG63 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab92620 at 5µg/ml overnight at +4°C. The secondary antibody (pseudo-colored green) was Alexa Fluor® 488 goat anti- rabbit (ab150081) IgG (H+L) preadsorbed, used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1h at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1hour at room temperature.
Anti-HBEGF/DTR antibody (ab92620) at 1 µg/ml + Human stomach tumor tissue lysate (adenocarcinoma) - total protein (ab29678) at 10 µg

Secondary
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.
Performed under reducing conditions.

Predicted band size: 23 kDa

Exposure time: 4 minutes

The band observed at 20 kDa could potentially be a cleaved form of HB EGF due to the presence of a 19 amino acid signal peptide.

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 or contact our technical team.

Terms and conditions

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