

Product datasheet

Biotin Anti-HBEGF/DTR antibody [4G10] ab66793

3 Images

Overview

Product name	Biotin Anti-HBEGF/DTR antibody [4G10]
Description	Biotin Mouse monoclonal [4G10] to HBEGF/DTR
Host species	Mouse
Conjugation	Biotin
Tested applications	Suitable for: IP, ICC/IF, WB
Species reactivity	Reacts with: Human Does not react with: Mouse
Immunogen	Recombinant fragment corresponding to Human HBEGF/DTR. Database link: Q99075
Epitope	EGF domain
Positive control	Vero cell extract carrying human HG-EGF expression vector.
General notes	Biotin/IgG = 7.5 The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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	pH: 6 Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Protein G purified
Purification notes	Produced in serum-free medium and purified by combination of chromatography.
Clonality	Monoclonal

Clone number 4G10
Isotype IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab66793 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
IP		Use at an assay dependent dilution.
ICC/IF		Use at an assay dependent dilution.
WB		Use a concentration of 0.2 - 1 µg/ml. Detects a band of approximately 20-28 kDa (predicted molecular weight: 23 kDa).

Target

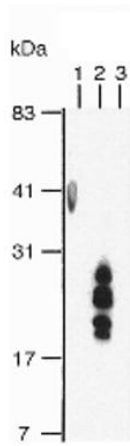
Function May be involved in macrophage-mediated cellular proliferation. It is mitogenic for fibroblasts and smooth muscle but not endothelial cells. It is able to bind EGF receptors with higher affinity than EGF itself and is a far more potent mitogen for smooth muscle cells than EGF. Also acts as a 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.

Images



Western blot - Biotin Anti-HBEGF/DTR antibody [4G10] (ab66793)

All lanes : Biotin Anti-HBEGF/DTR antibody [4G10] (ab66793) at 1 µg/ml

Lane 1 : Vero (African green monkey kidney epithelial cell) whole cell lysate

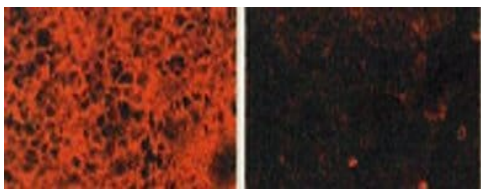
Lane 2 : Vero cell extract from cells carrying human HBEGF/DTR expression vector

Lane 3 : Vero cell extract from cells carrying mouse HBEGF/DTR expression vector

Predicted band size: 23 kDa

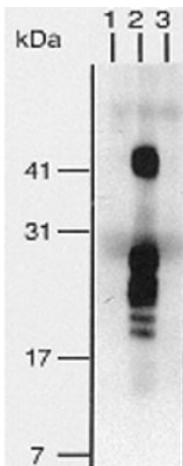
Observed band size: 20-28 kDa

Additional bands at: 41 kDa. We are unsure as to the identity of these extra bands.



Immunocytochemistry/ Immunofluorescence - Biotin Anti-HBEGF/DTR antibody [4G10] (ab66793)

These images shows Vero cells carrying human HBEGF/DTR expression vector (left hand image) and Vero cells carrying mouse HBEGF/DTR expression vector (right hand image). Cells treated with ab66793, fixed with 4% PFA and reacted with Cys3 conjugated 2nd antibody.



Immunoprecipitation - Biotin Anti-HBEGF/DTR antibody [4G10] (ab66793)

All lanes : HBEGF/DTR antibody [4G10](biotin) - Azide free (ab66793) at 1 µg/ml. Lane 1 : Vero cell extract Lane 2 : Vero cell extract from cells carrying human HBEGF/DTR expression vector. Lane 3 : Vero cell extract from cells carrying mouse HBEGF/DTR expression vector Predicted band size : 23 kDa Observed band size : 20-38 kDa Additional bands at : 41 kDa. We are unsure as to the identity of these extra bands. This image shows Immunoprecipitation of HBEGF/DTR followed by Western blotting/SDS PAGE; the cell surface was biotinylated.

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