

### Anti-HBEGF/DTR antibody [4G10] **ab66792**

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#### Overview

<b>Product name</b>	Anti-HBEGF/DTR antibody [4G10]
<b>Description</b>	Mouse monoclonal [4G10] to HBEGF/DTR
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> IP, WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human, Recombinant fragment
<b>Immunogen</b>	Recombinant fragment corresponding to Human HBEGF/DTR.
<b>Epitope</b>	EGF domain
<b>Positive control</b>	Vero cell extract carrying human HBEGF/DTR expression vector.
<b>General notes</b>	<p>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.</p> <p>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&amp;As</p>

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	pH: 6 Constituents: PBS, 50% Glycerol (glycerin, glycerine)
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Produced in serum-free medium and purified by combination of chromatography
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	4G10
<b>Isotype</b>	IgG1

#### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab66792 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 concentration. Use at 2µg/ml
WB		Use a concentration of 0.2 - 1 µg/ml. Detects a band of approximately 20-28 kDa (predicted molecular weight: 23, 40 kDa).
ICC/IF		Use a concentration of 5 - 10 µg/ml.

## 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.

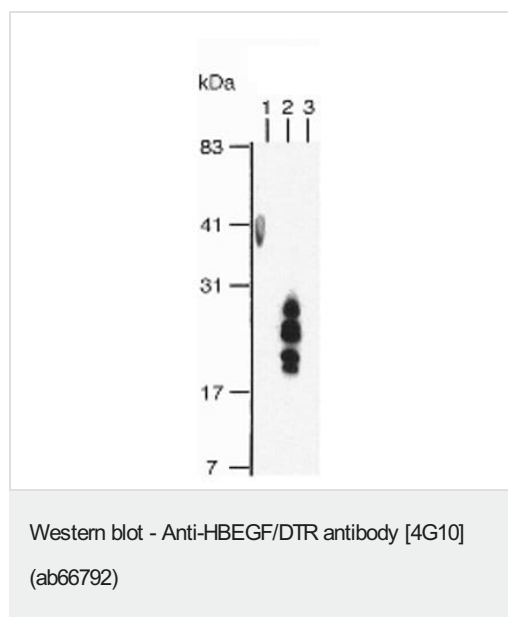
### Post-translational modifications

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



**All lanes :** Anti-HBEGF/DTR antibody [4G10] (ab66792) at 1 µg/ml

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

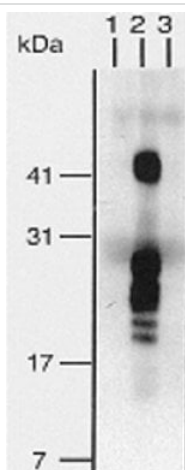
**Lane 2 :** Vero cell extract from cells carrying human HBEGF/DTR expression vector

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

**Predicted band size:** 23, 40 kDa

**Observed band size:** 20-28 kDa

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



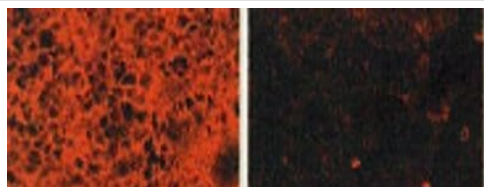
Immunoprecipitation - Anti-HBEGF/DTR antibody  
[4G10] (ab66792)

**Lane 1:** Vero cell extract, 1µg

**Lane 2:** Vero cells carrying Human HBEGF/DTR expression vector, 1µg

**Lane 3:** Vero Cells carrying mouse HBEGF/DTR expression vector, 1µg

Ab66792 immunoprecipitating HBEGF/DTR in Vero Cells. For western blotting, a HRP conjugated streptavidin was used as the secondary antibody; cell surface was biotinylated.



Immunocytochemistry/ Immunofluorescence - Anti-HBEGF/DTR antibody [4G10] (ab66792)

These images show Vero cells carrying human HG-EGF expression vector (left hand image) and Vero cells carrying mouse HBEGF/DTR expression vector (right hand image). Cells treated with ab 66792, fixed with 4% PFA and reacted with Cys3 conjugated 2nd antibody.

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

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