

Datasheet for ABIN2451994

anti-HBEGF antibody (EGF Like Domain) (Biotin)

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Overview

Quantity:	50 µg
Target:	HBEGF
Binding Specificity:	EGF Like Domain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HBEGF antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant human HB-EGF ectodomain expressed in SF21 cell
Clone:	4G10
Isotype:	IgG1
Cross-Reactivity (Details):	Does not react with mouse.
Characteristics:	biotin/IgG = 7.5
Purification:	Purified
Sterility:	Sterile filtered

Target Details

Target:	HBEGF
Alternative Name:	HB-EGF (HBEGF Products)
Background:	<p>Background: Heparin-binding epidermal growth factor-like growth factor (HB-EGF) is synthesized as a membrane-anchored precursor that is proteolytically cleaved to release the soluble mature growth factor, HB-EGF. The former functions as juxtacrine and the latter as paracrine growth factor. Soluble HB-EGF shows several forms in Western blotting with apparent molecular weights 19~27 kDa due to heterogeneous O-glycosylation and N-terminal truncation. HB-EGF activates EGFR and ErbB4 and promotes the development in many tissues. In human ProHB-EGF is the cellular receptor for diphtheria toxin. Non-toxic mutant of diphtheria toxin, CRM197, inhibits HB-EGF function. As HB-EGF level is elevated in most ovarian cancer, CRM197 is being tested as an anticancer drug. The hybridoma clone 4G10 was established and characterized in the laboratory of Prof. E. Mekada of Osaka University, who is a leading scientist in this field.</p>
UniProt:	Q99075
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway

Application Details

Application Notes:	1) Western blotting: 0. 2~1 g/mL 2) Immunoprecipitation: 2 g/mL 3) Indirect immuno-fluorescence staining: 5~10 g/mL
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS, 50 % glycerol
Preservative:	Azide free
Storage:	-20 °C/-80 °C
Storage Comment:	-20 C (For long term storage: -80 C)

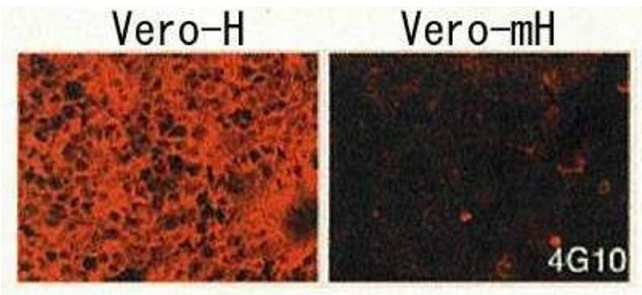
Publications

Product cited in: Freed: "HIV-1 gag proteins: diverse functions in the virus life cycle." in: **Virology**, Vol. 251, Issue 1 , pp. 1-15, (1998) ([PubMed](#)).

Saito, Morimoto, Ohara, Takamizawa, Nakata, Shinagawa: "Overproduction, purification, and diagnostic use of the recombinant HIV-1 Gag proteins, the precursor protein p55 and the processed products p17, p24, and p15." in: **Microbiology and immunology**, Vol. 39, Issue 7, pp. 473-83, (1996) ([PubMed](#)).

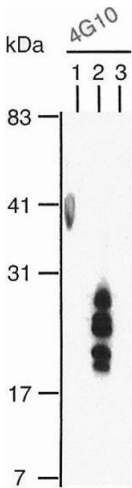
Adachi, Gendelman, Koenig, Folks, Willey, Rabson, Martin: "Production of acquired immunodeficiency syndrome-associated retrovirus in human and nonhuman cells transfected with an infectious molecular clone." in: **Journal of virology**, Vol. 59, Issue 2, pp. 284-91, (1986) ([PubMed](#)).

Images



Immunofluorescence

Image 1.



Western Blotting

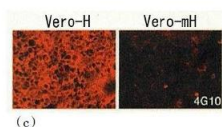
Image 2.

Immunohistochemistry

Image 3.

(c) Immunocytochemistry

Samples: (Vero-H) Vero cells carrying human HG-EGF expression vector, (Vero-mH) Vero cells carrying mouse HB-EGF expression vector. Cells treated with antibody 4G10 were fixed with 4% PFA and reacted with Cy3 conjugated 2nd antibody.



Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2451994.