Datasheet for ABIN7267617

anti-HBEGF antibody (AA 20-160)

3 Images

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Overview

Quantity:	100 µL
Target:	HBEGF
Binding Specificity:	AA 20-160
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HBEGF antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Purpose:	HB-EGF Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 20-160 of human HB-EGF (NP_001936.1).
Sequence:	LVTGESLERL RRGLAAGTSN PDPPTVSTDQ LLPLGGGRDR KVRDLQEADL DLLRVTLSSK PQALATPNKE EHGKRKKKGK GLGKKRDPCL RKYKDFCIHG ECKYVKELRA PSCICHPGYH GERCHGLSLP VENRLYTYDH T
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

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Target Details

Target:	HBEGF
Alternative Name:	HBEGF (HBEGF Products)
Background:	Heparin-binding EGF-like growth factor (HB-EGF) is a 12-16 kDa member of the epidermal growth factor (EGF)family. It possesses an EGF-like domain, and a heparin-binding motif. Mature HB-EGF is a soluble peptide thatarises from proteolytic processing of the transmembrane form. Human HB -EGF shows 76 % and 73 % aasequence identity with rat and mouse HB-EGF, respectively. It is required for normal cardiac valve formationand normal heart function, promotes smooth muscle cell proliferation. It may be involved in macrophage-mediated cellular proliferation, it is mitogenic for fibroblasts, but not endothelial cells. HB-EGF classified as agroup 2 ErbB ligand based on its ability to activate both the EGF/ErbB1 and ErbB4 receptors. Activityassociated with ErbB4 binding appears to be limited to non -mitogenic actions, while EGFR binding inducesboth mitogenic and non-mitogenic activity.,HBEGF,DTR,DTS,DTSF,HEGFL,Cancer,Invasion and Metastasis,Signal Transduction,ErbB-HER Signaling Pathway,Cell Biology & Developmental Biology,Growth factor,EGF,Cardiovascular,Angiogenesis,Angiogenic growth factors,HBEGF
Molecular Weight:	23kDa
Gene ID:	1839
UniProt:	Q99075
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

Application Details

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Restrictions:	For Research Use only

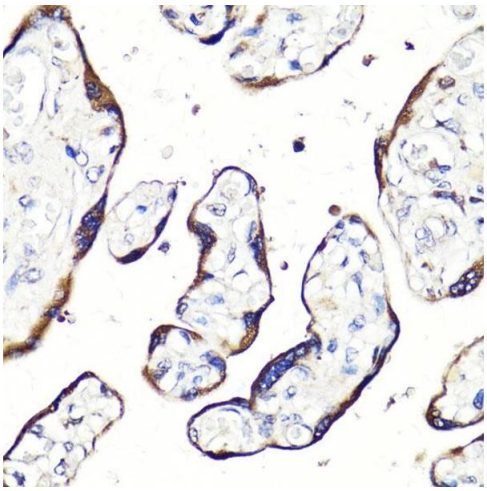
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

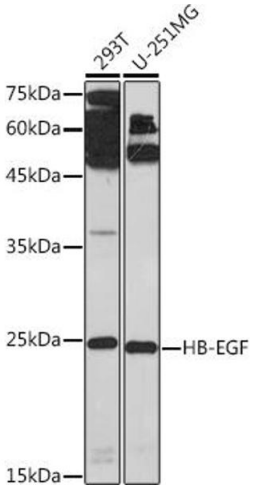
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



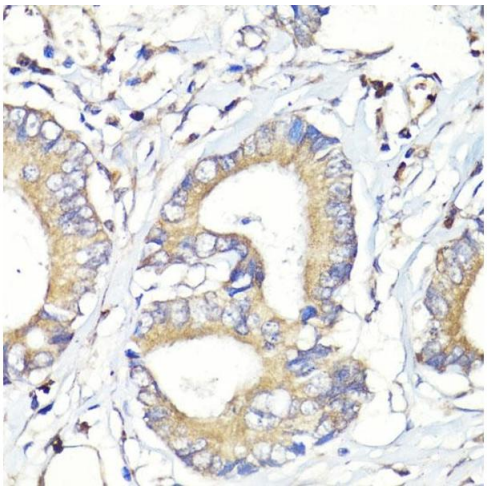
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human placenta using HB-EGF antibody (ABIN7267617) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using HB-EGF Rabbit pAb (ABIN7267617) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 180s.



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human colon carcinoma using HB-EGF antibody (ABIN7267617) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

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