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HBEGF Recombinant Rabbit mAb

Catalog # AP100091

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q99075
Other Accession	Q99075
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	23067
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 EGF-like domain.
SUBUNIT	Interacts with FBLN1. Interacts with EGFR and ERBB4.
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-glycosylated with core 1 or possibly core 8 glycans. Thr-47 is a minor glycosylation site compared to Thr-44.
Background Descriptions	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.,PTM: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).,PTM: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.,similarity:Contains 1 EGF-like domain.,subcellular location:Mature HB-EGF is released into the extracellular space and probably binds to a receptor.,

Additional Information

Gene ID	1839
Other Names	DTR; DTS; DTSF; HEGFL; HBEGF_HUMAN; HBEGF; heparin binding EGF like growth factor; diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor); heparin-binding EGF-like growth factor; Diphtheria toxin receptor (heparin-binding EGF-like growth factor); heparin-binding epidermal growth factor; Proheparin-binding EGF-like growth factor [Cleaved into: Heparin-binding EGF-like growth factor (HB-EGF) (HBEGF) (Diphtheria toxin receptor) (DT-R)]
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	HBEGF
Synonyms	DTR, DTS, HEGFL
Function	Growth factor that mediates its effects via EGFR, ERBB2 and ERBB4. Required for normal cardiac valve formation and normal heart function. Promotes smooth muscle cell proliferation. May be involved in macrophage-mediated cellular proliferation. It is mitogenic for fibroblasts, but not endothelial cells. It is able to bind EGF receptor/EGFR 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.
Cellular Location	[Heparin-binding EGF-like growth factor]: Secreted, extracellular space. Note=Mature HB-EGF is released into the extracellular space and probably binds to a receptor

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