



Anti-human HB-EGF Rabbit IgG

20191028DS



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	102-P65
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits immunized with highly pure Recombinant Human HB-EGF. Anti-Human HB-EGF-specific antibody was purified by affinity chromatography employing an immobilized Human HB-EGF matrix.

Target Background

Synonyms (Target):	HBEGF; DTR; DTS; DTSF; HEGFL
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HB-EGF is an EGF related growth factor that signals through the EGF receptor, and stimulates the proliferation of smooth muscle cells (SMC), fibroblasts, epithelial cells, and keratinocytes. HB-EGF is expressed in numerous cell types and tissues, including vascular endothelial cells and SMC, macrophages, skeletal muscle, keratinocytes, and certain tumor cells. The ability of HB-EGF to specifically bind heparin and heparin sulfate proteoglycans is distinct from other EGF-like molecules, and may be related to the enhanced mitogenic activity, relative to EGF, that HB-EGF exerts on smooth muscle cells. The human HB-EGF gene encodes a 208 amino acid transmembrane protein, which can be proteolytically cleaved to produce soluble HB-EGF.

Database References Target

Protein RefSeq:	NP_001936.1
Uniprot ID:	Q99075
mRNA RefSeq:	NM_001945

Product Specifications

Species reactivity	Human
Clone/Ab feature	Rabbit IgG
Cross reactivity	Human
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	recombinant human HB-EGF (Cat# 100-185)
Formulation	lyophilized
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

The antibody can be used within the following applications:
WB, ELISA

Western Blot: To detect Human HB-EGF by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/ml. When used in conjunction with compatible secondary reagents, the detection limit for Recombinant Human HB-EGF is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.

ELISA:

Sandwich: To detect Human HB-EGF by sandwich ELISA (using 100 µl/well), a concentration of 0.25-1.0 µg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with a Biotinylated Rabbit Anti-Human HB-EGF as a detection antibody, allows the detection of at least 2000-4000 pg/ml of Recombinant Human HB-EGF.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!