

## HBEGF Rabbit pAb

Catalog Number: bs-23252R

Target Protein: HBEGF

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Human (predicted:Mouse, Rat, Pig, Sheep, Cow)

Predicted MW: 21 kDa

Entrez Gene: 1839

Swiss Prot: Q99075

Source: KLH conjugated synthetic peptide derived from human DTSF/HB-EGF: 20-62/208.

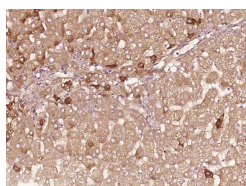
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** Heparin-binding epidermal growth factor-like growth factor (HB-EGF) is a 22kDa O-glycosylated protein that is a potent mitogen and chemoattractant for vascular smooth muscle cells, fibroblasts and epithelial cells but not endothelial cells. The natural protein has an apparent molecular mass of 19-23 kDa and exists in multiple forms as a result of heterogeneous O-glycosylation and/or Nterminal truncation. HB-EGF is synthesized as a membrane-anchored precursor(proHB-EGF) that is proteolytically cleaved to release the soluble mature growth factor. The two forms are active as juxtacrine and paracrine/autocrine growth factors respectively.HB-EGF activates two EGF receptor subtypes, HER1/ErbB1 and HER4 and binds to heparan sulfate proteoglycan.

### VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (Human liver carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DTSF) Polyclonal Antibody, Unconjugated (bs-23252R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

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[IF=5.293] Sakamoto Takashi. et al. HB-EGF Plays a Pivotal Role in Mucosal Hyperplasia During Otitis Media Induced by a Viral Analog. Front Cell Infect Mi. 2022 Feb;0:154 WB,IHC ; Rat . 35281434

[IF=4.7] Xiao-Ying Gao. et al. Molybdenum interferes with MMPs/TIMPs expression to reduce the receptivity of porcine endometrial epithelial cells. CHEM-BIOL INTERACT. 2025 Jan;405:111304 IF ; Porcine . 39486568