

bs-23252R**[Primary Antibody]****HBEGF Rabbit pAb****BioSS**
ANTIBODIES

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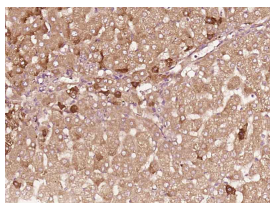
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— DATASHEET —

Host: Rabbit	Isotype: IgG	Applications: IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)
Clonality: Polyclonal		
GeneID: 1839	SWISS: Q99075	
Target: HBEGF		Reactivity: Human (predicted: Mouse, Rat, Pig, Sheep, Cow)
Immunogen: KLH conjugated synthetic peptide derived from human DTSF/HB-EGF: 20-62/208. < Extracellular >		
Purification: affinity purified by Protein A		Predicted MW.: 21 kDa
Concentration: 1mg/ml		Subcellular Location: Secreted ,Cell membrane
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.

— SELECTED CITATIONS —

- **[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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.