bs-3576R **[Primary Antibody]**

HBEGF Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1839 **SWISS:** Q99075

Target: HBEGF

Immunogen: KLH conjugated synthetic peptide derived from human HB-EGF: 51-150/208. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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.

Applications: **ELISA** (1:5000-10000)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, Cow, Chicken, Dog, Horse)

Predicted MW.: 21 kDa

Subcellular Location: Secreted ,Cell membrane

SELECTED CITATIONS

- **[IF=12.121]** Maximilian Strunzet al. Alveolar regeneration through a Krt8+ transitional stem cell state that persists in Human lung fibrosis. Nat Commun . 2020 Jul 16;11(1):3559. IF ;mouse. 32678092
- **[IF=10.7]** Xiangyi Ke. et al. Morphogenesis and regeneration share a conserved core transition cell state program that controls lung epithelial cell fate. DEV CELL. 2024 Dec 11 IF ;Mouse. 39667932
- **[IF=10.7]** Xiangyi Ke. et al.Morphogenesis and regeneration share a conserved core transition cell state program that controls lung epithelial cell fate..DEVELOPMENTAL CELL.2025 Mar 24;60(6):819-836.e7. IF ;Human,Mouse. 39667932
- **[IF=4.61]** Lebkuechner et al. Heterogeneity of Notch signaling in astrocytes and the effects of GFAP and vimentin deficiency. (2015) J.Neurochem. 135:234-48 ICC ;Mouse. 26118771
- **[IF=4.28]** Lebkuechner, Isabell, et al. "Heterogeneity of Notch signaling in astrocytes and the effects of GFAP and vimentin deficiency." Journal of Neurochemistry(2015). Other ;="Mouse". 26118771