

**bs-2010R****[ Primary Antibody ]****BioSS**  
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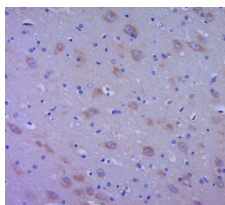
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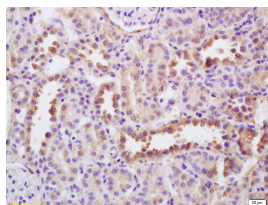
400-901-9800

**EGF Rabbit pAb****— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500)
<b>Clonality:</b> Polyclonal		<b>Reactivity:</b> Rat
<b>Target:</b> EGF		<b>Predicted MW.:</b> 5.8/133 kDa
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from rat EGF: 1-53/53 (974-1026/1233).		<b>Subcellular Location:</b> Cell membrane
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 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.		
<b>Background:</b> Epidermal growth factor (EGF) is an acid- and heat-stable 53 amino acid protein originally found in rodents and humans. It has been shown to be a potent mitogen for a variety of cell types both in vivo and in vitro. EGF binds to the EGF receptor on the surface of cells and mediates intrinsic phosphorylation of the receptor on tyrosine residues. It has been detected in nearly all body fluids, such as urine (urogastrone), saliva, milk and platelet-rich plasma. EGF, TGF $\beta$ and vaccinia virus growth factor exhibit 30-40% amino acid homology. Several additional members of the EGF/TGF family have been described; these include Cripto, Amphiregulin and the heparin-binding EGF-like growth factor. Amphiregulin and the heparin-binding EGF-like growth factor both bind to the EGF receptor.		

**— VALIDATION IMAGES —**

Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); 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 (EGF) Polyclonal Antibody, Unconjugated (bs-2010R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-EGF(rat) Polyclonal Antibody, Unconjugated(bs-2010R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

**— SELECTED CITATIONS —**

- **[IF=5.6]** Biao Wang. et al. The HIF-1 $\alpha$ /EGF/EGFR Signaling Pathway Facilitates the Proliferation of Yak Alveolar Type II Epithelial Cells in Hypoxic Conditions. INT J MOL SCI. 2024 Jan;25(3):1442 WB ;Bovine. 10.3390/ijms25031442
- **[IF=4.9]** Mitsuki Matsumura. et al. Combinatorial Effects of Cisplatin and PARP Inhibitor Olaparib on Survival, Intestinal Integrity, and Microbiome Modulation in Murine Model. int j mol sci. 2025 Jan 30;26(3):1191. IHC ;Mouse. 39940959

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

- **[IF=4.292]** Wenqian Xie. et al. Seasonal expressions of ER $\alpha$ , ER $\beta$ , EGF, EGFR, PI3K and Akt in the scent glands of the muskrats (*Ondatra zibethicus*). J Steroid Biochem. 2021 Oct;213:105961 IHC ;Muskrat. 34391939
- **[IF=0]** Nashmee, Ibrahim Hassan. Biochemical and Immunohistochemical Study of Sildenafil on Various Tissues of Male Rats. Diss. Ministry of Higher Education, 2016. IHC ;="Rat". Diss.MinistryofHigherEducation,2016.