

A Reliable Research Partner in Life Science and Medicine

# **EGFR/HER1/ErbB1 Monoclonal Antibody**

catalog number: AN200001P

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### **Description**

Reactivity Human

**Immunogen** Recombinant Human EGFR / HER1 / ErbB1 protein

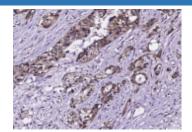
**Host** Mouse **Is otype** IgG1 Clone 2B10 **Purification** Protein A

Buffer 0.2 µm filtered solution in PBS

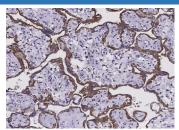
**Applications Recommended Dilution** 

IHC-P 1:50-1:200

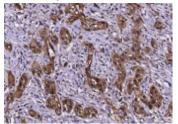
## Data



Immunohistochemistry of paraffin-embedded human rectal carcinoma using EGFR / HER1 / ErbB1 Monoclonal Antibody at dilution of 1:60



Immunohistochemistry of paraffin-embedded human placenta using EGFR / HER1 / ErbB1 Monoclonal Antibody at dilution of 1:60.



Immunohistochemistry of paraffin-embedded human esophageal carcinoma using EGFR / HER1 / ErbB1 Monoclonal Antibody at dilution of 1:60.

#### **Preparation & Storage**

Storage This antibody can be stored at 2°C-8°C for one month without detectable loss of

activity. Antibody products are stable for twelve months from date of receipt when

stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.

Shipping Ice bag

Background

#### For Research Use Only

### **Elabscience Bionovation Inc.**



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The epidermal growth factor receptor (EGFR) subfamily of receptor tyrosine kinases comprises four members: EGFR ( also known as HER1, ErbB1 or ErbB), ErbB2 (Neu, HER2), ErbB3 (HER3), and ErbB4 (HER4). All family members are type I transmembrane glycoproteins that have an extracellular domain which contains two cysteine-rich domains separated by a spacer region that is involved in ligand binding, and a cytoplasmic domain which has a membrane-proximal tyrosine kinase domain and a C-terminal tail with multiple tyrosine autophosphorylation sites. The human EGFR gene encodes a 1210 amino acid (aa) residue precursor with a 24 aa putative signal peptide, a 621 aa extracellular domain, a 23 aa transmembrane domain, and a 542 aa cytoplasmic domain. EGFR has been shown to bind a subset of the EGF family ligands, including EGF, amphiregulin, TGF-alpha, betacellulin, epiregulin, heparin-binding EGF and neuregulin-2 alpha in the absence of a co-receptor. Ligand binding induces EGFR homodimerization as well as heterodimerization with ErbB2, resulting in kinase activation, tyrosine phosphorylation and cell signaling. EGFR can also be recruited to form heterodimers with the ligand-activated ErbB3 or ErbB4. EGFR signaling has been shown to regulate multiple biological functions including cell proliferation, differentiation, motility and apoptosis. In addition, EGFR signaling has also been shown to play a role in carcinogenesis.

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086
Web:w w w .elabscience.com Email:techsupport@elabscience.com