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Product Information

Anti-Human EGFR Protein A scaffold, Agarose-Immobilized

Cat. No.: **AFB-18LY**
This product is for research use only and is not intended for diagnostic use.

Product Overview

The Anti-EGFR Protein A Scaffold molecule is a specific affinity ligand selected against the extracellular domain of EGFR. The Agarose-Immobilized Anti-EGFR Protein A Scaffold molecule can be used for immunoprecipitation of EGFR from complex mixes of proteins.

Antigen Description

The Epidermal Growth Factor Receptor (EGFR, ErbB) is a cell surface glycoprotein of approximately 135 kD (unglycosylated). There are several alternatively spliced forms of EGFR including a secreted soluble form. The EFGR belongs to the family tyrosine kinase receptors which are characterized by an extracellular ligand-binding domain, a single transmembrane and an intracellular domain responsible for transducing the signal. The receptor dimerizes upon binding to EGFR and the transduced signal stimulates cell growth and differentiation. The EGFR is over expressed or mutated in many types of cancers and the receptor as well as the down stream signaling molecules are subjects to several cancer therapeutic interventions.

Specific Activity

Anti-EGFR Protein A scaffold molecule binds to human EGFR. Cross reactivity with other species has not been tested.

Source

Display library

Species Reactivity

human

Expression Host

E. coli

Applications

Immunoprecipitation, Affinity Chromatography.

Molecular Weight

13.7kDa

Storage

At +4°C. Avoid freezing. There is no decrease in performance of the Agarose-Immobilized Protein A Scaffold molecule after storage for 2 weeks at +37°C.

ANTIGEN GENE INFOMATION

Gene Name

EGFR epidermal growth factorreceptor [Homo sapiens]

Official Symbol

EGFR

Synonyms

EGFR; epidermal growth factor receptor; ERBB; HER1; mENA; ERBB1; PIG61; OTTHUMP00000159661; OTTHUMP00000159662; OTTHUMP00000159663; OTTHUMP00000209210; OTTHUMP00000209211; proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; receptor tyrosine-protein kinase erbB-1; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog

Gene ID

1956

mRNA Refseq

NM_005228

Protein Refseq

NP_005219

MIM

131550

UniProt ID

P00533

Chromosome Location

7p12

Pathway

Adherens junction, organism-specific biosystem; Bladder cancer, conserved biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; EGFR downregulation, organism-specific biosystem; ErbB signaling pathway, conserved biosystem.

Function

ATP binding; MAP/ERK kinase kinase activity; actin filament binding; double-stranded DNA binding; epidermal growth factor receptor activity; identical protein binding.

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