

Mouse anti-Human EGFR Monoclonal Antibody | anti-EGFR antibody

EGFR Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283583	Mouse	Human	Western Blot, Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA

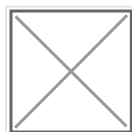
PRODUCT SYNONYMS

EGFR; Monoclonal Antibody; EGFR Antibody; Epidermal growth factor receptor; Proto-oncogene c-ErbB-1; Receptor tyrosine-protein kinase erbB-1; ERBB; ERBB1; HER1; anti-EGFR antibody

PRODUCT SPECIFICATIONS

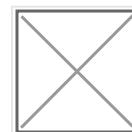
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1?
Clone Number	51CT78.40.5
Specificity	Purified His-tagged EGFR protein(Fragment) was used to produced this monoclonal antibody.
Purity/Purification	Purified Mouse Monoclonal Antibody (Mab)
Form/Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Sequence Length	1210
Applicable Applications for anti-EGFR antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA
Antigen Type	Recombinant Protein
Crown Antibody	Yes
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of HepG2 cells using EGFR Monoclonal Antibody(bottom histogram) compared to a negative control cell (top histogram). PE-conjugated goat-anti-mouse secondary antibodies were used for the analysis.



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human breast carcinoma with EGFR Monoclonal Antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)

Western blot analysis of lysates from A431, MDA-MB-468 cell line (from left to right), using EGFR Antibody. AAA283583 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-EGFR antibody	The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. Mutations in this gene are associated with lung cancer. Multiple alternatively spliced transcript variants that encode different protein isoforms have been found for this gene.
Product Categories/Family for anti-EGFR antibody	Crown Antibodies; Cancer; Signal Transduction
References	Complex Mutations in the Epidermal Growth Factor Receptor Gene in Non-small Cell Lung Cancer. Hata A, et al. J Thorac Oncol, 2010 Aug 30. PMID 20808254. EGFR signaling is differentially activated in patient-derived glioblastoma stem cells. Howard BM, et al. J Exp Ther Oncol, 2010. PMID 20734923. [EGFR Mutations Detection in Non-small Cell Lung Cancer Tissues by Real-time PCR and DNA Sequencing.] Li Y, et al. Zhongguo Fei Ai Za Zhi, 2009 Dec 20. PMID 20723379. [Detection and Its Clinical Significance of EGFR Gene Mutation and Gene Amplification in 187 Patients with Non-small Cell Lung Cancer.] Liu H, et al. Zhongguo Fei Ai Za Zhi, 2009 Dec 20. PMID 20723374. Effect of gefitinib on the survival of patients with recurrence of lung adenocarcinoma after surgery: A retrospective case-matching cohort study. Katayama T, et al. Surg Oncol, 2010 Aug 10. PMID 20705455.

NCBI AND UNIPROT INFORMATION

NCBI GI #	29725609
NCBI GeneID	1956
NCBI Accession #	NP_005219.2; NP_958439.1; NP_958440.1; NP_958441.1
NCBI GenBank Nucleotide #	NM_005228.3
UniProt Accession #	P00533; O00688; O00732; P06268; Q14225; Q68GS5; Q92795; Q9BZS2; Q9GZX1; Q9H2C9; Q9H3C9; Q9UMD7
Molecular Weight	134277
NCBI Official Full Name	epidermal growth factor receptor isoform a
NCBI Official Synonym Full Names	epidermal growth factor receptor
NCBI Official Symbol	EGFR
NCBI Official Synonym Symbols	ERBB; HER1; mENA; ERBB1; PIG61; NISBD2
NCBI Protein Information	epidermal growth factor receptor
UniProt Protein Name	Epidermal growth factor receptor
UniProt Gene Name	EGFR
UniProt Synonym Gene Names	ERBB; ERBB1; HER1
UniProt Entry Name	EGFR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.