

Mouse anti-Human ErbB1 Monoclonal Antibody | anti-EGFR antibody

anti-human Receptor tyrosine-protein kinase ErbB-1 monoclonal antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71483	Mouse	Human	ELISA, Flow Cytometry, Functional Assay

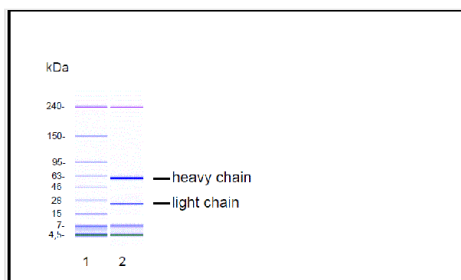
PRODUCT SYNONYMS

ErbB1; Monoclonal Antibody; anti-human Receptor tyrosine-protein kinase ErbB-1 monoclonal antibody; EGFR; anti-EGFR antibody

PRODUCT SPECIFICATIONS

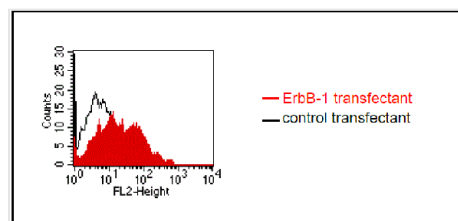
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	DP-4A1
Specificity	anti-human Receptor tyrosine-protein kinase ErbB-1 (EGFR)
Purity/Purification	Protein G
Form/Format	Purified
Sequence Length	1210
Applicable Applications for anti-EGFR antibody	ELISA (Competitive ELISA), FCM/FACS (Flow Cytometry)
Buffer	phosphate buffered saline, pH 7.2
Immunogen	genetic immunisation with cDNA encoding human ErbB-1
Selection	based on recognition of the complete native protein expressed on transfected mammalian cells
Immunogen	cDNA
Preparation and Storage	Short term: 2 degree C - 8 degree C; long term: -20 degree C (avoid repeated freezing and thawing)

IMAGES



Application Data

Fig.1: FACS analysis of BOSC23 cells using DP-4A1 Cat.# GM- 1001. BOSC23 cells were transiently transfected with an expression vector encoding either ErbB-1 (red curve) or an irrelevant protein (control transfectant: black curve). Binding of DP-4A1 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with ErbB-1 transfected cells.



Application Data

Fig.2: CGE analysis of purified DP-4A1 monoclonal antibody. Lane 1: molecular weight marker, Lane 2: 2 µg of purified DP-4A1 antibody. Proteins were separated by CGE (capillary gel electrophoresis, Agilent 2100 Bioanalyzer). Internal control bands (240 kDa / 7 kDa / 4,5 kDa).

ADDITIONAL INFORMATION

Related Product Information for anti-EGFR antibody	Background: Epidermal growth factor receptor (EGFR; ErbB-1) is a 170-kDa transmembrane glycoprotein encoded by the HER1 proto-oncogene. It belongs to the EGFR family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR (ErbB-1), HER2/c-neu (ErbB-2), Her3 (ErbB-3) and Her4 (ErbB-4). ErbB-1 is expressed on the cell surface and is activated by binding of its specific ligands, including epidermal growth factor and transforming growth factor ? (TGF?). Growth factor binding to the extracellular domain of ErbB-1 induces formation of homoand heterodimers with another member of the ErbB receptor family. The EGFR signaling pathway is one of the most important pathways that regulate growth, survival, proliferation and differentiation in mammalian cells, while over-expression of ErbB-1 have been associated with a number of cancers, including lung cancer and glioblastoma (2,3).
References	Normanno N, Bianco C, Strizzi L, Mancino M, Maiello MR, De Luca A, Caponigro F and Salomon DS (2005). The ErbB receptors and their ligands in cancer: an overview. Curr Drug Targets 6(3):243-57 Harari PM (2004). Epidermal growth factor receptor inhibition strategies in oncology. Endocr Relat Cancer. 11(4):689-708

NCBI AND UNIPROT INFORMATION

NCBI GI #	29725609
NCBI GeneID	1956
NCBI Accession #	NP_005219.2
NCBI GenBank Nucleotide #	NM_005228.3
UniProt Accession #	P00533; O00688; O00732; P06268; Q14225; Q68GS5; Q92795; Q9BZS2; Q9GZX1; Q9H2C9; Q9H3C9; Q9UMD7
Molecular Weight	69,228 Da
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
NCBI Protein Information	epidermal growth factor receptor; 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
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.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/erbb1-antibody-clone-dp-4a1-competitive-elisa-flow-cytometry-elisa/71483>