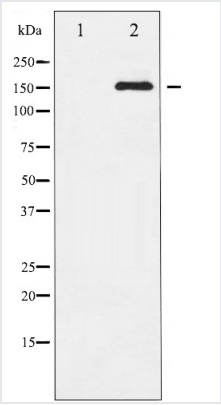
EGFR Antibody

PRODUCT OVERVIEW

Product Name	EGFR, Antibody
Full Product Name	Phospho-EGFR (Ser1071) Antibody
Product Gene Name	anti-EGFR antibody
Product Synonym Names	EC 2.7.10.1; ERBB1; Epidermal growth factor receptor precursor; Receptor protein-tyrosine kinase ErbB-1; kinase EGFR
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	Phospho-EGFR (Ser1071) Antibody detects endogenous levels of EGFR only when phosphorylated at Serine 1071
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	150-160kDa
OMIM	131550
3D Structure	ModBase 3D Structure for P00533
Immunogen	A synthesized peptide derived from human EGFR around the phosphorylation site of Serine 1071
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-EGFR antibody	Western Blot (WB)
Application Notes for anti-EGFR antibody	WB: 1:500-1:2000
Related Product Information for anti-EGFR antibody	EGFR is a receptor tyrosine kinase. Receptor for epidermal growth factor (EGF) and related growth factors including TGF-alpha, amphiregulin, betacellulin, heparin-binding EGF-like growth factor, GP30 and vaccinia virus growth factor. Is involved in the control of cell growth and differentiation.
Other Notes	Small volumes of anti-EGFR antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EGFR purchase	MBS8511236 is an antibody targeting EGFR. Also known as Phospho-EGFR (Ser1071) Antibody. Reactive in Human, Mouse, Rat.



Western Blot (WB) of anti-EGFR antibody
Western blot analysis of EGFR phosphorylation expression in serum treated HepG2 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EGFR. It may not necessarily be applicable to this product.

NCBI GI #	29725609
NCBI GeneID	1956
NCBI Accession #	NP_005219.2
UniProt Primary Accession #	P00533
UniProt Secondary Accession #	O00688; O00732; P06268; Q14225; Q68GS5; Q92795; Q9BZS2; Q9GZX1; Q9H2C9; Q9H3C9; Q9UMD7
UniProt Related Accession #	P00533
GenBank Nucleotide #	NM_005228.4
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
UniProt Protein Name	Epidermal growth factor receptor
UniProt Synonym Protein Names	Proto-oncogene c-ErbB-1; Receptor tyrosine-protein kinase erbB-1
Protein Family	Epidermal growth factor receptor
UniProt Gene Name	EGFR
UniProt Synonym Gene Names	ERBB; ERBB1; HER1
NCBI Protein Information	epidermal growth factor receptor
NCBI Summary for EGFR	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. [provided by RefSeq, Jun 2016]

UniProt Comments for EGFR	Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses (PubMed:2790960, PubMed:10805725, PubMed:27153536). Known ligands include EGF, TGFA/TGF-alpha, AREG, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-binding EGF (PubMed:2790960, PubMed:7679104, PubMed:8144591, PubMed:9419975, PubMed:15611079, PubMed:12297049, PubMed:27153536, PubMed:20837704). Ligand binding triggers receptor homo- and/or heterodimerization and autophosphorylation on key cytoplasmic residues. The phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex downstream signaling cascades. Activates at least 4 major downstream signaling cascades including the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLCgamma-PKC and STATs modules (PubMed:27153536). May also activate the NF-kappa-B signaling cascade (PubMed:11116146). Also directly phosphorylates other proteins like RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to the G protein-coupled receptor signaling (PubMed:11602604). Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1/beta-catenin (PubMed:11483589). Plays a role in enhancing learning and memory performance ().
Research Articles on EGFR	**1.** Both the EGFR mutation-positive status and the use of a TKI are associated with higher incidence of brain metastases for patients with advanced non-squamous NSCLC.
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