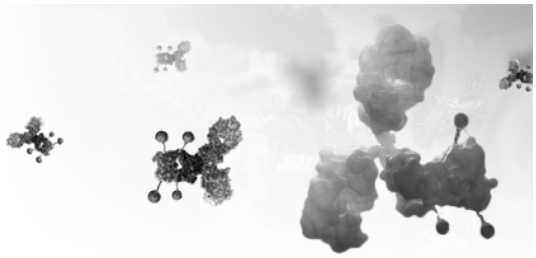

Mouse Anti-Human EGFR monoclonal antibody, clone 22I8 (CABT-L4636)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Human EGFR
Immunogen	Full length human recombinant protein of human EGFR (NM_201283) produced in HEK293T cell.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	22I8
Conjugate	Unconjugated
Applications	LMNX
Format	Purified, Liquid
Concentration	Lot specific
Size	100 µg
Buffer	Stored in PBS (pH 7.4) containing 0.05% sodium azide and up to 5% trehalose
Preservative	0.05% sodium azide
Storage	Short Term: 2-8°C. Long Term: -20°C. Avoid repeated freezing and thawing.
Ship	Wet ice

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

BACKGROUND

Introduction	Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses. Known ligands include EGF, TGFA/TGF-alpha, amphiregulin, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-binding EGF. 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. May also activate the NF-kappa-B signaling cascade. Also directly phosphorylates other proteins like RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to the G proteincoupled receptor signaling. Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1/beta-catenin.Isoform 2 may act as an antagonist of EGF action
Keywords	ERBB; ERBB1; HER1; mENA; NISBD2; PIG61; epidermal growth factor receptor

GENE INFORMATION

Entrez Gene ID	1956
UniProt ID	P00533

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