

AM00040BT-N**Monoclonal Antibody to EGFR / ERBB1 (1140-1160) (incl. pos. control) - Biotin**

Alternate names:	EGF Receptor, Epidermal growth factor receptor, Proto-oncogene c-ErbB-1, Receptor tyrosine-protein kinase erbB-1, c-ErbB-1, erbB-1
Quantity:	0.1 mg
Concentration:	0.25 mg/ml
Background:	EGFR/erbB receptors are activated upon binding of EGF and EGF-related growth factors such as TGF alpha, beta-cellulin, Hb-EGF, HRG, or NRG. Binding of these ligands leads to receptor homo- and heterodimerization followed by autophosphorylation and activation of downstream signal transduction pathways (MAPK, PI3K/PKB, and STAT). In addition, EGFR becomes fully activated after phosphorylation of Y845 by src family kinases. Phosphorylation of Y1045 leads to association with cbl and subsequent receptor degradation. Phosphorylation of S1047 by CamKinase II leads to attenuation of kinase activity; phosphorylation of T654 (by PKC) and T669 (by MAPK, p38) interferes with receptor endocytosis/recycling.
Uniprot ID:	P00533
NCBI:	NP_005219.2
GeneID:	1956
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10B (for use in human samples)
Clone:	10F4
Immunogen:	Peptide conjugated to KLH.
Format:	State: Liquid Purification: Size exclusion chromatography Buffer System: PBS/0.09% Na-Azide/PEG and Sucrose Label: Biotin
Applications:	Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody specifically recognizes the cytoplasmic domain of EGF receptor (aa 1165 - 1186). Recognition is independent of the phosphorylation status. Species: Human, Mouse. Other species not tested.

Storage:

Store the antibody (aliquote in liquid nitrogen) at -80°C.
Avoid repeated freezing and thawing.
Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Shelf life: one year from despatch.