

## Product datasheet for **AM00040BT-N**

### EGFR (1140-1160) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 10F4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	10F4
Applications:	WB
Recommended Dilution:	Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Peptide conjugated to KLH.
Specificity:	This antibody specifically recognizes the cytoplasmic domain of EGF receptor (aa 1165 - 1186). Recognition is independent of the phosphorylation status.
Formulation:	PBS/0.09% Na-Azide/PEG and Sucrose Label: Biotin State: Liquid
Concentration:	lot specific
Purification:	Size exclusion chromatography
Conjugation:	Biotin
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	epidermal growth factor receptor
Database Link:	<a href="#">Entrez Gene 1956 Human P00533</a>

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<b>Background:</b>	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.
<b>Synonyms:</b>	Epidermal growth factor receptor, EGF Receptor, erbB-1, c-ErbB-1