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Product datasheet for AM00047BT-N

EGFR (C-term) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 13G8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	13G8
Applications:	ELISA, IF, IP, WB
Recommended Dilution:	**ELISA:** 0.05 µg/ml. **Western Blot:** 1 µg/ml for HRPO/ECL detection. *Recommended blocking buffer:* Casein/Tween 20 based blocking and blot incubation buffer. **Immunoprecipitation:** 1-10 µg per 10^6 pervanadate-treated A431 cells. **Immunocytochemistry:** 1-10 µg/ml. **Luminex.**
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Peptide conjugated to KLH. **Epitope:** C-terminus (aa 1165-1186), independent of phosphorylation status.
Specificity:	This antibody specifically recognizes the C-terminus of EGF receptor (aa 1165-1186). Recognition is independent of the phosphorylation status at tyrosine 1173.
Formulation:	PBS containing 0.09% Sodium Azide, PEG and Sucrose Label: Biotin State: Liquid purified IgG fraction
Concentration:	lot specific
Purification:	Subsequent Thiophilic Adsorption and 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.
Predicted Protein Size:	180 kDa

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Gene Name: epidermal growth factor receptor

Database Link: Entrez Gene 1956 Human
P00533

Background: EGF Receptor (EGFR) and erbB2, erbB3, and ErbB4 are members of subclass I of receptor tyrosine kinases. 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.

Synonyms: Epidermal growth factor receptor, EGF Receptor, erbB-1, c-ErbB-1

Note: **Included Positive Control:** Cell lysate from untreated HepG2 cells

Protocol:
Positive Control: Cell lysate from untreated HepG2 cells.

Formulation: Lyophilized Cell lysate from serum starved HepG2 cells

Reconstitution: Reconstitute by addition of 200 µl H_2O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Application: The Positive Control is recommended for immunoblot applications.
20µl of Positive control cell lysate correspond to Ca. 80.000 cells.

Use 20 µl/lane (mini gel) for HRPO/ECL detection of the target proteins.

Note: The lyophilized cell lysates contain SDS and**are not recommended** fro applications with native proteins such as Immunoprecipitation.

Storage: Aliquote and store frozen.
Avoid repeated freeze/thaw cycles.
Shelf life: one year from despatch.