

Product datasheet for AM00033BT-N

OriGene Technologies, Inc.

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EGFR (960-980) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 16F8]

Product data:

Product Type: Primary Antibodies

Clone Name: 16F8
Applications: WB

Recommended Dilution: Western Blot: 0.5 μg/ml for HRPO/ECL detection.

Positive control: Cell lysate from untreated HepG2 cells (included - please see "Protocols").

Recommended buffer: Casein/Tween 20 based blocking and blot incubation buffer.

Reactivity: Canine, Human, Mouse, Rat

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

Immunogen: Peptide conjugated to KLH.

Specificity: This antibody specifically recognizes the cytoplasmic domain of EGF receptor (aa 960 - 980).

Recognition is independent of the phosphorylation status.

Formulation: PBS/0.09% Na-Azide/PEG and Sucrose

Label: Biotin

State: Liquid purified Ig fraction

Concentration: lot specific

Purification: Subsequent ultrafiltration and size exclusion chromatography

Conjugation: Biotin

Storage: Aliquote and store the antibody (in liquid nitrogen) at -80°C.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

Database Link: Entrez Gene 1956 Human

P00533





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.

Synonyms:

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

Note:

A positive control cell lysate (HepG2 untreated) is included. For technical details please see "Protocols".

Protocol: Positive Control Cell Lysate: HepG2 Untreated

Format: Lyophilized cell lysate from serum starved HepG2 cells.

Reconstitution: Restore by addition of 200 μ l H2O. After complete solubilization add 200 μ l 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min.

Applications: The positive control cell lysate is recommended for immunoblot applications. 20 μ l of positive control cell lysate correspond to ca. 80,000 cells. Use 20 μ l / lane (mini gel) for HRPO/ECL detection of target proteins. Please note: The lyophilized cell lysates contain SDS and are**not recommended** for applications with native proteins such as immunoprecipitation.

Storage: Aliquote and store frozen. Avoid repeated freezing and thawing.