

Product datasheet for AM00046PU-N

OriGene Technologies, Inc.

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EGFR (Extracell. Dom.) (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 20E12]

Product data:

Product Type: Primary Antibodies

Clone Name: 20E12 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
Host: Mouse
Isotype: IgG

Clonality: Monoclonal

Immunogen: Peptide conjugated to hemocyanin, extracellular domain

Specificity: This antibody specifically recognizes the extracellular domain of EGF receptor.

Formulation: PBS, 0.09 % Na-azide, PEG and Sucrose

State: Purified

State: Lyophilized Ig fraction

Reconstitution Method: Restore with 1 ml H2O (15 min, RT).

Purification: Subsequent ultrafiltration and size exclusion chromatography

Conjugation: Unconjugated

Storage: Store lyophilised product upon arrival at -20 °C.

Following reconstitution aliquot and store at 2 - 8 °C for up to three months or freeze in

liquid nitrogen at -80 °C for longer. Avoid repeated freezing and thawing.

Should this product contain a precipitate, we recommend centrifugation before use.

Stability:Shelf life: One year from despatch.Gene Name:epidermal growth factor receptor

Database Link: Entrez Gene 1956 Human

P00533





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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

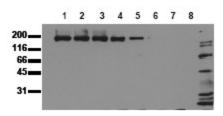
endocytosis/recycling.

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

Note: Mol. weight: 180 kDA.

Positive control included: Cell lysate from untreated A431 cells.

Product images:



Antibody sensitivity Whole cell lysates of A431 cells containing defined cell numbers per lane were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with mab EGFR-20E12 (0.5 ug/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). lane 1: 160.000 cells, lane 2: 80.000 cells lane 3: 40.000 cells, lane 4: 20.000 cells, lane 5: 10.000 cells, lane 6: 5.000 cells, lane 7: 2.500 cells, lane 8: 1.000 cells