

Product datasheet for **AM00041PU-N**

EGFR pTyr1172 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 10G12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10G12
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). Use cell lysate from EGF-treated HepG2 cells as positive control.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Phosphopeptide conjugated to hemocyanin N P D pY Q Q D
Specificity:	This antibody specifically recognizes EGFR phosphorylated at Tyrosine 1172.
Formulation:	PBS, 0.09 % Na-azide, PEG and Sucrose State: Purified State: Lyophilized Ig fraction
Reconstitution Method:	Reconstitute with 1 ml H ₂ O (15 min, RT).
Purification:	Subsequent ultrafiltration and size exclusion
Conjugation:	Unconjugated
Storage:	Aliquot and store at -20 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Database Link:	Entrez Gene 1956 Human P00533

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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 Y869 by src family kinases. Phosphorylation of Y1069 leads to association with cbl and subsequent receptor degradation. Phosphorylation of S1071 by CamKinase II leads to attenuation of kinase activity; phosphorylation of T678 (by PKC) and T693 (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

A positive control is provided (for details see protocol below).

Protocol: Positive control cell lysate provided:

HepG2 EGF Treated - recommended for immunoblotting

Formulation:

Lyophilized cell lysate from HepG2 cells. Serum starved cells were treated for 15 min. with EGF.

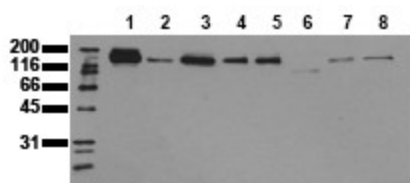
Restore by addition of 200 µl H₂O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90°C for 5 min. Store in aliquots at -20°C. Avoid repeated freezing and thawing.

Applications:

20 µl of positive cell lysate correspond to ca. 80.000 cells. Use 20 µl / lane (mini gel) for HRPO/ECL detection of the target proteins.

Please note:

The lyophilized cell lysate contains SDS and is not recommended for applications with native proteins such as immunoprecipitation.

Product images:


Detection of endogenous EGFR Whole cell lysates of EGF-stimulated tumor cells (20.000 cells per lane) were applied to SDS-PAGE and transferred to a PVDF membrane. The immunoblot was probed with AM00041PU-N (0.5 µg/ ml) for 1 h at RT and developed by ECL (exp. time: 30 sec). lane 1: A431; lane 2: A549; lane 3: SKOV3; lane 4: OVCAR5; lane 5: HaCaT; lane 6: PC3; lane 7: HeLa; lane 8: HepG2