

Product datasheet for **AM00036PU-N**

EGFR pSer1047 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 1H9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1H9
Applications:	ELISA, IF, IP, 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. ELISA: 0.1 µg/ml. Immunoprecipitation: 1-10 µg per 10e6 pervanadate-treated A431 cells. Immunocytochemistry: 0.1-1 µg/ml. Luminex. Included Positive Control: Cell lysate from pervanadate-treated HepG2 cells (See Protocols below).
Reactivity:	Canine, Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Phosphopeptide conjugated to KLH. Epitope: Phosphoserine 1047, RYS _p SDST
Specificity:	This antibody recognizes EGFR phosphorylated at Serine 1047.
Formulation:	PBS containing 0.09% Sodium Azide, PEG and Sucrose State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 1 ml H ₂ O (15 min, RT).
Purification:	Subsequent Thiophilic Adsorption 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.



[View online »](#)

Stability:	Shelf life: One year from despatch.
Predicted Protein Size:	180 kDa
Gene Name:	epidermal growth factor receptor
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:	Protocol: Included Positive Control: Cell lysate from pervanadate-treated HepG2 cells.

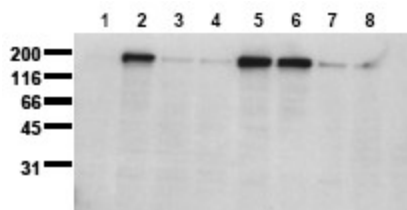
Format: Lyophilized cell lysate from HepG2 cells. Serum starved cells were treated for 15 min with pervanadate.

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.

Application: The positive control cell lysate is recommended for immunoblot applications. 20 μ l of positive control cell lysate correspond to ca. 20.000 cells. Use 20 μ l/lane (mini gel) for HRPO/ECL detection of the target proteins. Please NOTE: The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as in immunoprecipitation.

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

Product images:



EGFR Transactivation: Serum starved HepG2 cells were treated for 15min as indicated. Whole cell lysates were separated by SDS-PAGE (ca 20.000 cells/lane). The immunoblot was probed with mab EGFR-1H9 (0.5 μ g/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec). Lane 1: Control Lane 2: PMA Lane 3: Forskolin Lane 4: LPA Lane 5: Sorbit Lane 6: Anisomycin Lane 7: Ionomycin Lane 8: Taxol