

Product datasheet for **AM00037PU-N**

EGFR pTyr1092 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 15A2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	15A2
Applications:	ELISA, IP, WB
Recommended Dilution:	ELISA (protein ELISA: 0.1 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 10e6 pervanadate-treated A431 cells).
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Phosphopeptide conjugated to hemocyanin Epitope: Phosphotyrosine 1092, V P E pY I N Q
Specificity:	This antibody specifically recognizes EGFR phosphorylated at Tyrosine 1092.
Formulation:	PBS, 0.09 % Na-azide, PEG and Sucrose State: Purified State: Lyophilized Ig fraction
Reconstitution Method:	Restore with 1 ml H ₂ O, 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:

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.

Includes positive control: Cell lysate from pervanadate-treated HepG2 cells (see protocols).

Protocol: Positive control

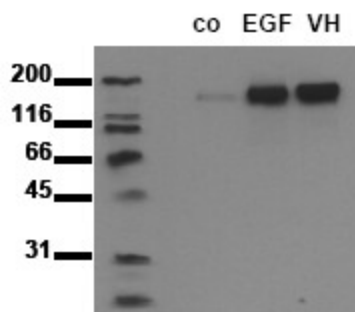
Format: Lyophilized cell lysate from HepG2 cells. Serum starved cells were treated for 15 min with pervanadate.

Reconstitute 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.

Aliquote and store frozen. Avoid repeated freeze/thaw cycles.

Application: 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 the target proteins.

Please note: The lyophilized cell lysates contain SDS and are not recommended for applications with native proteins such as immunoprecipitation.

Product images:

Phosphospecificity: Whole cell extracts of control (co), EGF stimulated (EGF) or pervanadate treated (VH) SKOV3 tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to a PVDF membrane. The immunoblot was probed with mab EGFR-15A2 (0.5 μ g/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec).