

Product datasheet for **AM00042BT-N**

EGFR pTyr1173 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 9H2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9H2
Applications:	ELISA, IF, IHC, IP, WB
Recommended Dilution:	Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended buffer: Casein/Tween 20 based blot incubation buffer CPPT (AS00002BU-L/-N). Included Positive Control: Cell lysate from vanadate-treated HepG2 cells. Immunoprecipitation: 1-10 µg per 10e6 vanadate treated A431 cells. Immunocytochemistry: 1-10 µg/ml. Immunohistochemistry. ELISA: 0.05 µg/ml.
Reactivity:	Canine, Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Phosphopeptide conjugated to KLH. Epitope: phospho-Tyr1173 N A E pY L R V
Specificity:	The antibody specifically interacts with the 1197 - N A E pY L R V motif corresponding to the major autophosphorylation site of Human EGFR. Mab 9H2 does not crossreact with the highly homologous pTyr1248 of activated erbB2.
Formulation:	PBS with 0.09% Sodium Azide, PEG and Sucrose Label: Biotin State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Subsequent thiophilic adsorption and size exclusion chromatography
Conjugation:	Biotin
Storage:	Store the antibody (aliquote in liquid nitrogen) at -80°C. Avoid repeated freezing and thawing. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
Stability:	Shelf life: one year from despatch.



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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 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:	Protocol: Provided Positive Control cell lysate: HepG2 Pervanadate Treated -recommended for Immunoblotting

Formulation:

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

Reconstitution:

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.

Application:

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 !