

## Product datasheet for **AM00029PU-N**

### EGFR pThr678 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 3F2]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	3F2
Applications:	ELISA, IP, WB
Recommended Dilution:	ELISA (0.05 µg/ml). Western blot. Immunoprecipitation (1 - 10 µg per 10e6 vanadate treated A431 cells). Luminex.
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Phosphopeptide conjugated to KLH.
Specificity:	This antibody specifically recognizes EGFR phosphorylated at Threonine 678.
Formulation:	PBS, 0.09 % Na-Azide, PEG and Sucrose, 50 % Glycerol State: Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Subsequent thiophilic adsorption and size exclusion chromatography
Conjugation:	Unconjugated
Storage:	Store (in aliquots) at -20 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	epidermal growth factor receptor
Database Link:	<a href="#">Entrez Gene 1956 Human P00533</a>



[View online »](#)

**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.

Product includes positive control: Cell lysate from PMA-/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 plus PMA.

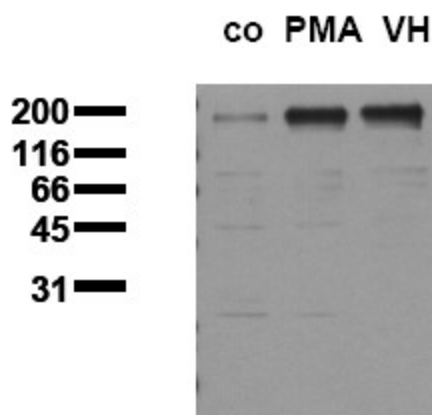
Reconstitution: Reconstitute by addition of 200 µl H<sub>2</sub>O. After complete solubilization add 200 µl 2x SDS-PAGE sample buffer, mix and incubate at 90 °C for 5 min.

Application: The positive control cell lysate is recommended for immunoblot applications. 20 µl positive control cell lysate correspond to approx. 20.000 cells.

Use 20 µl / 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.

Storage: Aliquot and store frozen. Avoid repeated freeze/thaw cycles.

**Product images:**


Phosphospecificity Whole cell extracts of control (co), stimulated (PMA) or pervanadate treated (VH) OVCAR-5 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-3F2 (0.5 µg/ ml) for 1h at RT and developed by ECL (exp. time: 30 sec).