

Product datasheet for **AM00030BT-N**

EGFR pThr693 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 5F10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	5F10
Applications:	ELISA, WB
Recommended Dilution:	ELISA: 0.1 µg/ml. Western blot: 0.5 µg/ml for HRPO/ECL detection. <i>Recommended blocking buffer:</i> Casein/Tween 20 based blocking and blot incubation buffer. <i>Included Positive Control:</i> Cell lysate from PMA-pervanadate-treated A431 cells (See Protocols).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Phosphopeptide conjugated to hemcyanin
Specificity:	This antibody specifically recognizes EGFR phosphorylated at Threonine 693.
Formulation:	PBS, 0.09% Sodium Azide, PEG and Sucrose Label: Biotin State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Subsequent Thiophilic Adsorption and Size Exclusion Chromatography
Conjugation:	Biotin
Storage:	Aliquote and freeze in liquid nitrogen. Antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.
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.

Protocol: **Positive Control: Cell lysate from PMA+pervanadate-treated A431 cells**

Description: Cell lysate from PMA+pervanadate-treated A431 cells, epidermoid carcinoma (Human)

Format: Lyophilized cell lysate from A431 cells.
Serum starved cells were treated for 15min with pervanadate plus PMA.

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.

Protein Families: Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Secreted Protein, Stem cell relevant signaling - JAK/STAT signaling pathway, Transmembrane

Protein Pathways: Adherens junction, Bladder cancer, Calcium signaling pathway, Colorectal cancer, Cytokine-cytokine receptor interaction, Dorso-ventral axis formation, Endocytosis, Endometrial cancer, Epithelial cell signaling in Helicobacter pylori infection, ErbB signaling pathway, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, MAPK signaling pathway, Melanoma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton