

Product datasheet for **AM00029BT-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:	<u>ELISA</u> : 0.05 µg/ml. <u>Western Blot</u> : 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. <u>Immunoprecipitation</u> : 1 - 10 µg per 10 ⁶ vanadate treated A431 cells. <u>Luminex</u> .
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 Label: Biotin State: Liquid
Concentration:	lot specific
Purification:	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.
Gene Name:	epidermal growth factor receptor
Database Link:	<u>Entrez Gene 1956 Human P00533</u>



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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