

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human EGFR when phosphorylated at Y1197 in direct ELISAs and Western blots. For Western blot applications, Catalog # MAB8058 is recommended.
Source	Monoclonal Rat IgG _{2B} Clone # 869286
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human EGFR Y1197 site Accession # P00533
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

EGF receptor, also known as ErbB1, is an approximately 160 kDa transmembrane receptor tyrosine kinase that binds multiple EGF family proteins. Ligand binding induces EGFR homodimerization or heterodimerization with ErbB2, 3, or 4 as well as activation of its kinase domain and phosphorylation within the cytoplasmic domain. Phosphorylation of Tyr869 by Src is important for full activation of the receptor. Phosphorylation of Tyr1197 by MAP kinases contributes to EGFR interaction with PIK3C2B. EGFR signaling regulates multiple biological functions including cell proliferation, differentiation, motility, and apoptosis. Three additional alternative splice forms lack the transmembrane and cytoplasmic domains. Within the ECD, human EGFR shares 88% aa sequence identity with mouse and rat EGFR.

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