

## Human EGFR Alexa Fluor® 532-conjugated Antibody

Monoclonal Rat IgG<sub>2B</sub> Clone # 869286

Catalog Number: FAB8274X

100 µg

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 <sub>2B</sub> 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 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.			

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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% as sequence identity with mouse and rat EGFR.

## PRODUCT SPECIFIC NOTICES

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China | info.cn@bio-techne.com TEL: 400.821.3475