Human EGFR Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 752502

Catalog Number: FAB8336U

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human EGFR with the aa 746-750 deletion in direct ELISAs and Western blots.
Source	Monoclonal Mouse IgG_{2A} Clone # 752502
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Human EGFR synthetic peptide CPVAIKTSPKAN Accession # P00533
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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

Epidermal growth factor receptor (EGFR, also known as ErbB1 and HER1) is the founding member of the ErbB family of receptor tyrosine kinases. Ligand binding induces receptor dimerization and autophosphorylation on multiple tyrosine residues. *EGFR* exon 19 deletions are in-frame deletions occurring within exon 19, which encodes part of the kinase domain. This mutation occurs with a frequency of approximately 48% in EGFR mutant lung tumors. It affects the catalytic domain (amino acids 746-750), and is predominantly associated with non-small cell lung cancer (1). In a metastatic setting, EGFR deletions like aa746-750 are predictors of efficacy of the EGFR tyrosine kinase inhibitors (1, 2).

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