



Rabbit Anti-Human EGFR monoclonal antibody, clone 40I56M9 [Alexa Fluor 488] (CABT-L1280)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	This antibody is predicted to react with canine, mouse and rat based on sequence homology.
Target	EGFR
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	40I56M9
Purification	Protein A Purified
Conjugate	Alexa Fluor 488
Applications	ICC, IF
Format	Liquid
Concentration	1 mg/ml
Buffer	PBS, pH 7.4, with 1mg/ml BSA
Preservative	0.05% Sodium Azide
Storage	4°C, store in dark, DO NOT FREEZE!

BACKGROUND

Introduction

Epidermal Growth Factor Receptor (EGFR) is a 175 kDa transmembrane glycoprotein belonging to tyrosine kinase superfamily. It acts as a receptor for epidermal growth factor (EGF) family proteins. Binding of EGFR to its ligands causes autophosphorylation of tyrosine kinase followed by activation of signal transduction pathways connected to cell proliferation and differentiation. Tyrosine 1068 present within the cytoplasmic domain of the receptor is a major autophosphorylation site that allows binding of Grb2 and activation of the Ras-Raf-ERK1 and ERK2 signaling pathway.

Keywords

EGFR;epidermal growth factor receptor;ERBB;HER1;mENA;ERBB1;PIG61;OTTHUMP00000159661;OTTHUMP00000159662;OTTHUMP