



# Rabbit Anti-Human EGFR monoclonal antibody, clone 40I56M9 [Alexa Fluor 555] (CABT-L1281)

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

## PRODUCT INFORMATION

<b>Specificity</b>	This antibody is predicted to react with canine, mouse and rat based on sequence homology.
<b>Target</b>	EGFR
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Clone</b>	40I56M9
<b>Purification</b>	Protein A Purified
<b>Conjugate</b>	Alexa Fluor 555
<b>Applications</b>	ICC, IF
<b>Format</b>	Liquid
<b>Concentration</b>	1 mg/ml
<b>Buffer</b>	PBS, pH 7.4, with 1mg/ml BSA
<b>Preservative</b>	0.05% Sodium Azide
<b>Storage</b>	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