



# Rabbit Anti-Human EGFR (mutated L858 R) monoclonal antibody, clone TQ236 (CABT-L2462)

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

## PRODUCT INFORMATION

<b>Immunogen</b>	Synthetic peptide within Human EGFR aa 850-950 (mutated L858 R).
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Clone</b>	TQ236
<b>Purification</b>	Purified from TCS by protein A/G.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, IHC-P
<b>Positive Control</b>	Human lung carcinoma tissue; H1975 cell lysate.
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Buffer</b>	PBS, 1% BSA
<b>Preservative</b>	0.099% Sodium Azide
<b>Storage</b>	-20°C. Avoid Freeze/Thaw Cycles

## BACKGROUND

## Introduction

Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses. Known ligands include EGF, TGFA/TGF-alpha, amphiregulin, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-binding EGF. Ligand binding triggers receptor homo- and/or heterodimerization and autophosphorylation on key cytoplasmic residues. The phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex downstream signaling cascades. Activates at least 4 major downstream signaling cascades including the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLCgamma-PKC and STATs modules. May also activate the NF-kappa-B signaling cascade. Also directly phosphorylates other proteins like RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to the G protein-coupled receptor signaling. Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1/beta-catenin. Isoform 2 may act as an antagonist of EGF action.

## Keywords

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

# GENE INFORMATION

## Entrez Gene ID

[1956](#)

## UniProt ID

[P00533](#)