

Recombinant human EGFR (mutated T790M + L858R) protein (Active) ab271495

画像数 2

製品の詳細

製品名	Recombinant human EGFR (mutated T790M + L858R) protein (Active)
生理活性	Specific Activity: 1200 pmol/min/μg. Assay was performed in kinase buffer containing 0.2 mM DTT using Poly-(Glu4:Tyr)-biotin substrate (0.2 mg/ml) and 20 mM ATP. Reaction was performed at 30°C for 30 mins. Amount of ATP transferred was calculated using Kinase-Glo reagent.
精製度	>= 50 % SDS-PAGE. Affinity purified.
発現系	Baculovirus infected Sf9 cells
アクセッション番号	P00533
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
配列	MRRRHIVRKRTLRRLLQERELVEPLTPSGEAPNQALLRILKE TEFKKIKV LGSGAFGTVYKGLWIPEGEKVKIPVAIKELREATSPKANKEI LDEAYVMA SVDNPHVCRLLGICLTSTVQLITQLMPFGCLLDYVREHKDNI GSQYLLNW CVQIAKGMNYLEDRRLVHRDLAARNVLVKTPQHVKITDFGLA KLLGAEEK EYHAEGGKVPKWMALLESILHRIYTHQSDVWSYGVTVWELMT FGSKPYDG IPASEISSILEKGERLPQPPICTIDVYMIMVKCWMIDADSRP KFRELIIE FSKMARDPQRYLVIQGDERMHLPSPTDSNFYRALMDEEDMDD VVDADEYL IPQQGFFSSPSTRTPLLSSLSATSNNSTVACIDRNLQSCP IKEDSFLQ RYSSDPTGALTEDSIDDTFLPVPEYINQSVPKRPAGSVQNPV YHNQPLNP APSRDPHYQDPHSTAVGNPEYLNVTQPTCVNSTFDSPAHWQAQ

KGSHQISL
DNPDYQQDFFPKEAKPNGIFKGSTAENAEYLRVAPQSSEFIG
A

予測される分子量	88 kDa
領域	668 to 1210
修飾	mutated T790M + L858R
タグ	His tag C-Terminus , GST tag N-Terminus
配列の追加情報	Cytoplasmic domain.

特性

Our **Abpromise guarantee** covers the use of **ab271495** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Functional Studies SDS-PAGE
製品の状態	Liquid

前処理および保存

保存方法および安定性	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8 Constituents: 0.79% Tris HCl, 1.45% Sodium chloride, 10% Glycerol (glycerin, glycerine), 0.03% (R*,R*)-1,4-Dimercaptobutan-2,3-diol This product is an active protein and may elicit a biological response in vivo, handle with caution.
------------	--

関連情報

機能	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.
組織特異性	Ubiquitously expressed. Isoform 2 is also expressed in ovarian cancers.
関連疾患	Lung cancer Inflammatory skin and bowel disease, neonatal, 2
配列類似性	Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily. Contains 1 protein kinase domain.

翻訳後修飾

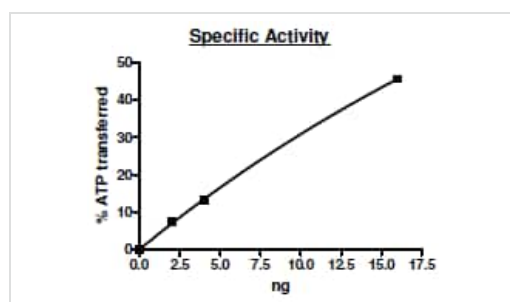
Phosphorylation at Ser-695 is partial and occurs only if Thr-693 is phosphorylated. Phosphorylation at Thr-678 and Thr-693 by PRKD1 inhibits EGF-induced MAPK8/JNK1 activation. Dephosphorylation by PTPRJ prevents endocytosis and stabilizes the receptor at the plasma membrane. Autophosphorylation at Tyr-1197 is stimulated by methylation at Arg-1199 and enhances interaction with PTPN6. Autophosphorylation at Tyr-1092 and/or Tyr-1110 recruits STAT3. Dephosphorylated by PTPN1 and PTPN2.

Monoubiquitinated and polyubiquitinated upon EGF stimulation; which does not affect tyrosine kinase activity or signaling capacity but may play a role in lysosomal targeting. Polyubiquitin linkage is mainly through 'Lys-63', but linkage through 'Lys-48', 'Lys-11' and 'Lys-29' also occurs. Deubiquitination by OTUD7B prevents degradation. Ubiquitinated by RNF115 and RNF126. Methylated. Methylation at Arg-1199 by PRMT5 stimulates phosphorylation at Tyr-1197.

細胞内局在

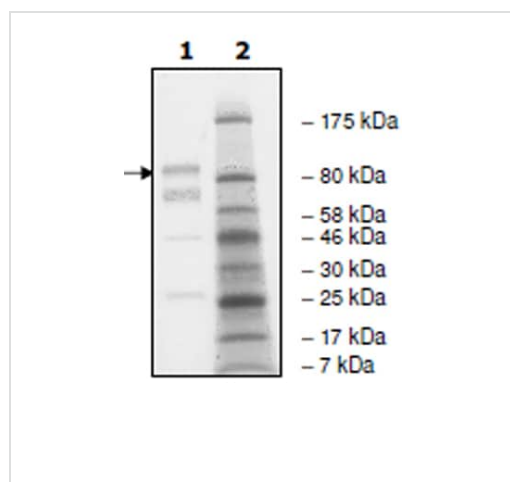
Secreted and Cell membrane. Endoplasmic reticulum membrane. Golgi apparatus membrane. Nucleus membrane. Endosome. Endosome membrane. Nucleus. In response to EGF, translocated from the cell membrane to the nucleus via Golgi and ER. Endocytosed upon activation by ligand. Colocalized with GPER1 in the nucleus of estrogen agonist-induced cancer-associated fibroblasts (CAF).

画像



Specific activity of ab271495.

Functional Studies - Recombinant human EGFR (mutated T790M + L858R) protein (Active) (ab271495)



SDS-PAGE analysis of 0.2 µg ab271495.

SDS-PAGE - Recombinant human EGFR (mutated T790M + L858R) protein (Active) (ab271495)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.co.jp/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors