

Anti-EGFR (phospho S1046 + S1047) antibody [EP2259Y] ab76300

リコンビナント **RabMAb**

★★★★★ [1 Abreviews](#) [1 References](#) [画像数 5](#)

製品の概要

製品名	Anti-EGFR (phospho S1046 + S1047) antibody [EP2259Y]
製品の詳細	Rabbit monoclonal [EP2259Y] to EGFR (phospho S1046 + S1047)
由来種	Rabbit
特異性	Recognises EGFR phosphorylated on Serine 1046 and Serine 1047 of the mature human isoform 1 (corresponding to S1070 and S1071 from the precursor form P00533-1/p170)
アプリケーション	適用あり: WB, IP, ICC/IF, Dot blot 適用なし: Flow Cyt or IHC-P
種交差性	交差種: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: A431 cell lysates treated with EGF. ICC/IF: A431 cells treated with EGF. IP: A431 treated with EGF whole cell lysate. Dot Blot: EGFR (pS1046/pS1047) phospho peptide.
特記事項	Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EP2259Y

アプリケーション

The Abpromise guarantee Abpromise保証は、 次のテスト済みアプリケーションにおけるab76300の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (1)	1/500000 - 1/1e+006. Detects a band of approximately 150 kDa (predicted molecular weight: 134 kDa).
IP		1/40.
ICC/IF		1/100 - 1/250.
Dot blot		1/1000.

追加情報 Is unsuitable for Flow Cyt or IHC-P.

ターゲット情報

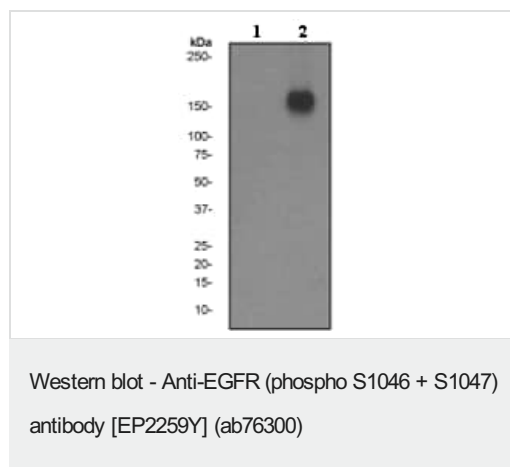
機能	<p>Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses. Known ligands include EGF, TGFA/TGF-alpha, amphiregulin, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-binding 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.</p> <p>Isoform 2 may act as an antagonist of EGF action.</p>
組織特異性	Ubiquitously expressed. Isoform 2 is also expressed in ovarian cancers.
関連疾患	<p>Lung cancer</p> <p>Inflammatory skin and bowel disease, neonatal, 2</p>
配列類似性	<p>Belongs to the protein kinase superfamily. Tyr protein kinase family. EGF receptor subfamily. Contains 1 protein kinase domain.</p>
翻訳後修飾	<p>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.</p> <p>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.</p>

細胞内局在

Deubiquitination by OTUD7B prevents degradation. Ubiquitinated by RNF115 and RNF126. Methylated. Methylation at Arg-1199 by PRMT5 stimulates phosphorylation at Tyr-1197.

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



All lanes : Anti-EGFR (phospho S1046 + S1047) antibody [EP2259Y] (ab76300) at 1/1000000 dilution

Lane 1 : A431 cell lysate

Lane 2 : A431 cell lysate treated with EGF

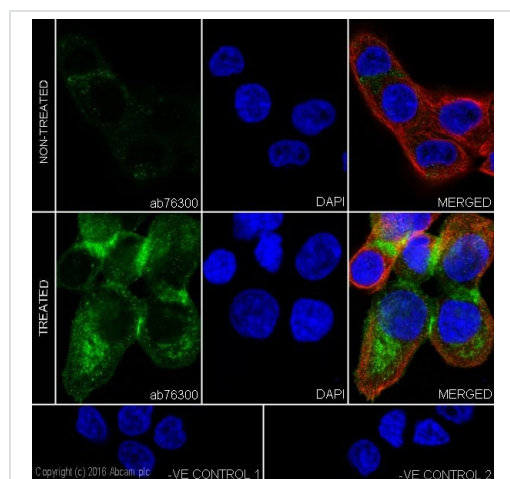
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 134 kDa

Observed band size: 180 kDa



Immunocytochemistry/Immunofluorescence analysis of untreated and EGF (100ng/mL for 10 minutes) treated A431 cells labelling EGFR (phospho S1046 + S1047) with ab76300 at 1/100. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. The cells were co-stained with **ab195889**, an Alexa Fluor® 594-conjugated mouse anti-tubulin (1/200). Nuclei counterstained with DAPI (blue).

Control 1: untreated A431 cells incubated with

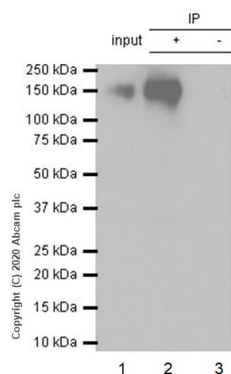
PBS instead of primary antibody followed by incubation with

ab150077 Alexa Fluor® 488 goat anti-rabbit IgG.

Control 2: EGF treated A431 cells incubated

with PBS instead of primary antibody followed by incubation with

ab150077 Alexa Fluor® 488 goat anti-rabbit IgG.



Immunoprecipitation - Anti-EGFR (phospho S1046 + S1047) antibody [EP2259Y] (ab76300)

Purified ab76300 at 1/40 dilution (2µg) immunoprecipitating EGFR in A431 treated with EGF whole cell lysate.

Lane 1 (input): A431 (Human epidermoid carcinoma epithelial cell) treated with EGF whole cell lysate 10µg

Lane 2 (+): ab76300 + A431 treated with EGF whole cell lysate.

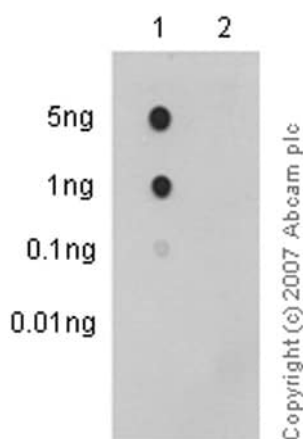
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab76300 in A431 treated with EGF whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM/TBST.

Observed band size: 180 kDa



Dot Blot - Anti-EGFR (phospho S1046 + S1047) antibody [EP2259Y] (ab76300)

Primary antibody: ab76300 at a dilution of 1/1000.

Secondary antibody: Peroxidase conjugated-goat anti-rabbit IgG, (H+L) at a dilution of 1/2500.

Blocking and dilution buffer: 5% NFDM/TBST

Lane 1: EGFR (pS1046/pS1047) phospho peptide.

Lane 2: EGFR non-phospho peptide.

Exposure time: 3 minutes.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-EGFR (phospho S1046 + S1047) antibody
[EP2259Y] (ab76300)

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