


# Anti-EGFR (phospho Y1068) antibody [Y38] ab32430

リコンビナント **RabMAb**

**37 References**   **画像数 4**

### 製品の概要

製品名	Anti-EGFR (phospho Y1068) antibody [Y38]
製品の詳細	Rabbit monoclonal [Y38] to EGFR (phospho Y1068)
由来種	Rabbit
特異性	This antibody recognises only EGFR phosphorylated on Tyrosine 1068 of the mature human isoform 1 (corresponding to Y1092 from the precursor form P00533-1/p170).
アプリケーション	<b>適用あり:</b> WB, ICC/IF, IP <b>適用なし:</b> Flow Cyt
種交差性	<b>交差種:</b> Human <b>交差が予測される動物種:</b> Pig 
免疫原	Synthetic peptide within Human EGFR (phospho Y1068). The exact sequence is proprietary. Residues surrounding Tyr1068 of mature human EGFR. Database link: <b>P00533</b> (Peptide available as <b>ab205609</b> )
ポジティブ・コントロール	WB: A431 cell lysate treated with EGF. ICC/IF: A431 cell lysate treated with EGF.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <b>see here</b> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <b>RabMAb<sup>®</sup> patents</b> . 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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.

バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	Y38
アイソタイプ	IgG

## 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ab32430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		1/1000 - 1/10000. Predicted molecular weight: 135 kDa. A blocking peptide is available for this antibody as <b>ab205609</b> .
ICC/IF		1/100 - 1/250.
IP		1/30. <b>For unpurified format use at 1/150 dilution.</b>

**追加情報**      Is unsuitable for Flow Cyt.

## ターゲット情報

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

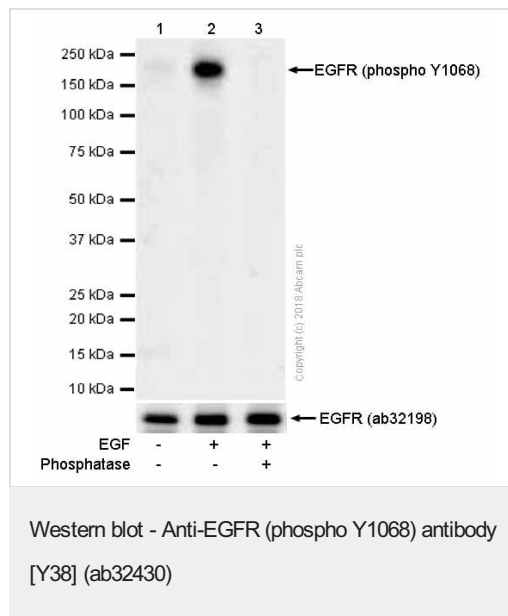
plasma membrane. Autophosphorylation at Tyr-1197 is stimulated by methylation at Arg-1199 and enhances interaction with PTPN6. Autophosphorylation at Tyr-1092 and/or Tyr-1110 recruits STAT3. Dephosphorylated by PTPN1 and PTPN2.

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



**All lanes** : Anti-EGFR (phospho Y1068) antibody [Y38] (ab32430) at 1/1000 dilution (Purified)

**Lane 1** : A431 (Human epidermoid carcinoma epithelial cell) whole cell lysates

**Lane 2** : A431 (Human epidermoid carcinoma epithelial cell) treated with 100 ng/ml EGF for 30 minutes whole cell lysates

**Lane 3** : A431 (Human epidermoid carcinoma epithelial cell) treated with 100 ng/ml EGF for 30 minutes. Then the membrane was incubated with phosphatase

Lysates/proteins at 15 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 135 kDa

**Observed band size:** 175 kDa



Immunoprecipitation - Anti-EGFR (phospho Y1068) antibody [Y38] (ab32430)

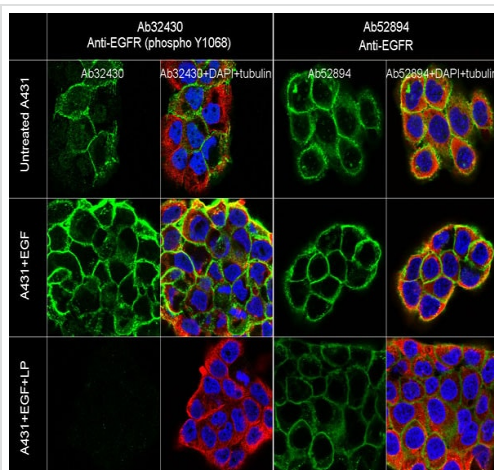
ab32430 (purified) at 1/30 dilution (2ug) immunoprecipitating EGFR in A431 treated with 200 ng/ml EGF for 15 minutes whole cell lysate 10ug . A431 (Human epidermoid carcinoma epithelial cell) treated with 200 ng/ml EGF for 15 minutes whole cell lysate 10ug

Lane 2 (+): ab32430 & A431 treated with 200 ng/ml EGF for 15 minutes whole cell lysate 10ug

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab32430 in A431 treated with 200 ng/ml EGF for 15 minutes whole cell lysate 10ug

For western blotting, VeriBlot for IP secondary antibody (HRP) (**ab131366**) was used at 1/1000 dilution.

Blocking and diluting buffer: 5% NFDm/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-EGFR (phospho Y1068) antibody [Y38] (ab32430)

Immunocytochemistry/Immunofluorescence analysis of untreated, EGF treated and EGF + LP treated A431 cells labelling EGFR (phospho Y1068) with purified ab32430 (left) and EGFR with **ab52894** (right) both at a dilution of 1/1000.

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. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

The image shows increased membrane staining after EGF (100ng/ml, 30min) treatment on A431 cells. The LP treatment decreased the increased membrane staining caused by EGF.

**ab52894** was used as a Pan control for ab32430. The results showed membrane and cytoplasmic staining on untreated, EGF and EGF + LP treated A431 cells.

### 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 Y1068) antibody [Y38]  
(ab32430)

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