abcam

Product datasheet

# Anti-EGFR (phospho Y1101) antibody [M199] ab76195

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## 製品の概要

| | |
|---|---|
| **製品名** | Anti-EGFR (phospho Y1101) antibody [M199] |
| **製品の詳細** | Mouse monoclonal [M199] to EGFR (phospho Y1101) |
| **由来種** | Mouse |
| **アプリケーション** | **適用あり:** WB, ICC/IF |
| **種交差性** | **交差種:** Human<br>**交差が予測される動物種:** Mouse, Rat |
| **免疫原** | Synthetic peptide corresponding to Human EGFR (phospho Y1101) conjugated to keyhole limpet haemocyanin. |
| **ポジティブ・コントロール** | ICC: A431 cells untreated or treated with EGF (100ng/ml) for 5 minutes; WB: A431 cell untreated or treated with EGF (100 ng/ml) for 5 minutes. |
| **特記事項** | The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.<br>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

## 製品の特性

| | |
|---|---|
| **製品の状態** | Liquid |
| **保存方法** | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. |
| **バッファー** | Preservative: 0.05% Sodium azide<br>Constituents: 0.1% BSA, 50% Glycerol, PBS |
| **精製度** | Protein G purified |
| **ポリ/モノ** | モノクローナル |
| **クローン名** | M199 |
| **アイソタイプ** | IgG1 |

**アプリケーション**

## 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ab76195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. Predicted molecular weight: 134 kDa. |
| **ICC/IF** | | 1/200. |

## 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.

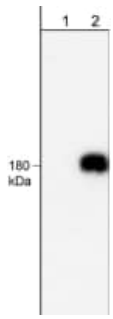
**翻訳後修飾**

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

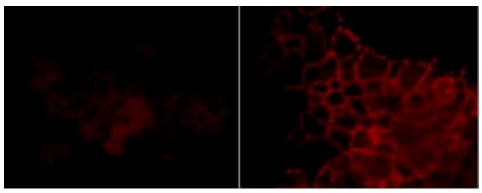



Western blot - Anti-EGFR (phospho Y1101) antibody [M199] (ab76195)

**All lanes :** Anti-EGFR (phospho Y1101) antibody [M199] (ab76195) at 1/1000 dilution

**Lane 1 :** A431 cells, untreated
**Lane 2 :** A431 cells treated with EGF (100 ng/ml) for 5 minutes

**Predicted band size:** 134 kDa
**Observed band size:** 180 kDa



Immunocytochemistry/ Immunofluorescence - Anti-EGFR (phospho Y1101) antibody [M199] (ab76195)

ab76195 at 1/200 dilution staining EGFR in A431 cells, untreated (left) or treated with EGF (100ng/ml) for 5 min (right) by Immunoflurescence.



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