

Anti-EGFR (phospho Y845) antibody [EPR2149Y] ab97613

重组 RabMAb

4 References 6 图像

概述

产品名称	Anti-EGFR (phospho Y845)抗体[EPR2149Y]
描述	兔单克隆抗体[EPR2149Y] to EGFR (phospho Y845)
宿主	Rabbit
经测试应用	适用于: Flow Cyt (Intra), Dot blot, WB, ICC/IF 不适用于: IHC-P
种属反应性	与反应: Human
免疫原	Synthetic peptide within Human EGFR (phospho S845). The exact sequence is proprietary.
阳性对照	A431 cells and cell lysates.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆

同种型 IgG

The Abpromise guarantee **Abpromise™承诺保证使用ab97613于以下的经测试应用**

应用	Ab评论	说明
Flow Cyt (Intra)		1/400.
Dot blot		Use at an assay dependent concentration.
WB		1/500. Detects a band of approximately 175 kDa (predicted molecular weight: 134 kDa).
ICC/IF		1/100 - 1/250.

靶标

Isoform 2 may act as an antagonist of EGF action.

疾病相关 Lung cancer

翻译后修饰

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.

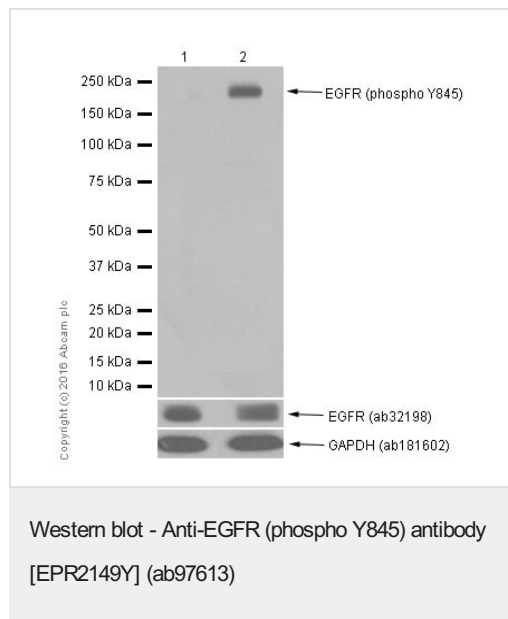
Monoubiquitinated and polyubiquitinated upon EGF stimulation; which does not affect tyrosine

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.

细胞定位

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).

图片



All lanes : Anti-EGFR (phospho Y845) antibody [EPR2149Y] (ab97613) at 1/1500 dilution (purified)

Lane 1 : Untreated A431 (Human epidermoid carcinoma cell line) whole cell lysates

Lane 2 : A431 (Human epidermoid carcinoma cell line) treated with 100 ng/ml EGF for 10 minutes whole cell lysates

Lysates/proteins at 15 µg per lane.

Secondary

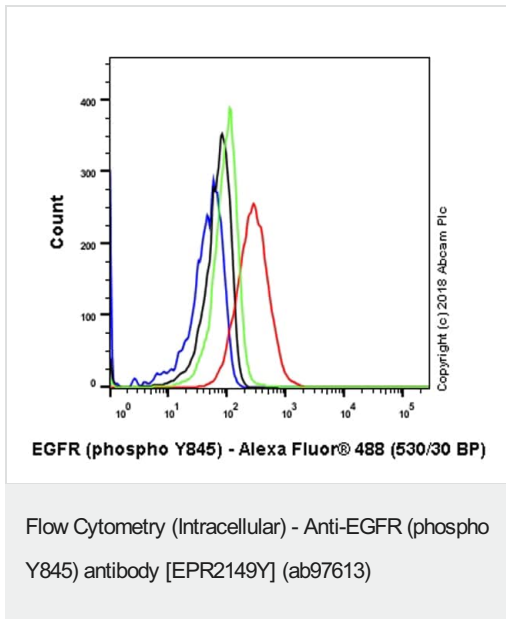
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 134 kDa

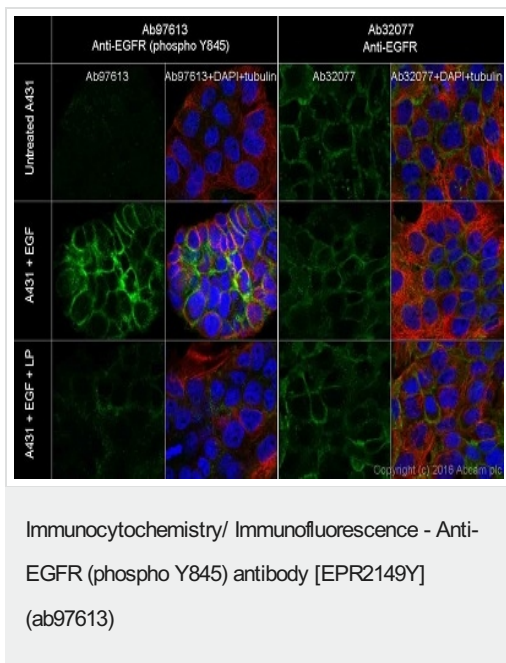
Observed band size: 175 kDa

Exposure time: 30 seconds

Blocking and dilution buffer: 5% NFDM/TBST.



Intracellular Flow Cytometry analysis of A431 (Human epidermoid carcinoma epithelial cell) treated with 100ng/ml EGF for 10 minutes cells labeling EGFR with purified ab97613 at 1/400 dilution (1µg/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue). Untreated A431 cells (Green).



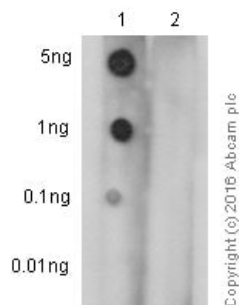
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized A431 (Human epidermoid carcinoma cell line) cell lines labeling EGFR with ab97613 (purified) at 1/50 dilution, followed by Goat anti-Rabbit IgG H & L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution

Cells were counterstained with [ab195889](#) (Anti-alpha Tubulin antibody [DM1A]) - Microtubule Marker (Alexa Fluor® 594)

The nuclear counterstain is DAPI (blue).

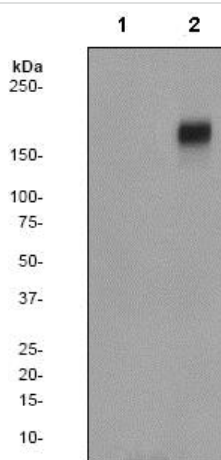
The green staining on the membrane was increased in the EGF (100ng/ml, 10min) treated A431 cells when compared with A431 cells without treatment. After LP treatment, the green signaling was obviously decreased.

For the pan antibody, there was no great difference after EGF (100ng/ml, 10min) or EGF (100ng/ml, 10min) + LP treatment. The data showed mostly membranous staining.



Dot Blot - Anti-EGFR (phospho Y845) antibody
[EPR2149Y] (ab97613)

Dot Blot analysis of Lane 1: EGFR (pY845) phospho peptide and Lane 2: EGFR non-phospho peptide labeling EGFR (phospho Y845) with ab97613 (unpurified) at 1/1000 dilution. 5% NFDm/TBST was used as the diluting and blocking buffer. **ab97051** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated was used as the secondary antibody at 1/100000 dilution. Exposure time: 3 minutes.



Western blot - Anti-EGFR (phospho Y845) antibody
[EPR2149Y] (ab97613)

All lanes : Anti-EGFR (phospho Y845) antibody [EPR2149Y] (ab97613) at 1/500 dilution (unpurified)

Lane 1 : A431 cell lysates, untreated

Lane 2 : A431 cell lysates, treated with EGF

Lysates/proteins at 10 µg per lane.

Predicted band size: 134 kDa

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 Y845) antibody [EPR2149Y]
(ab97613)

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