Order: 0571-88177686
Fax: 0571-88177681
Support: support@biolynx.cn

Rev.: 2018/12/5

EGFR
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

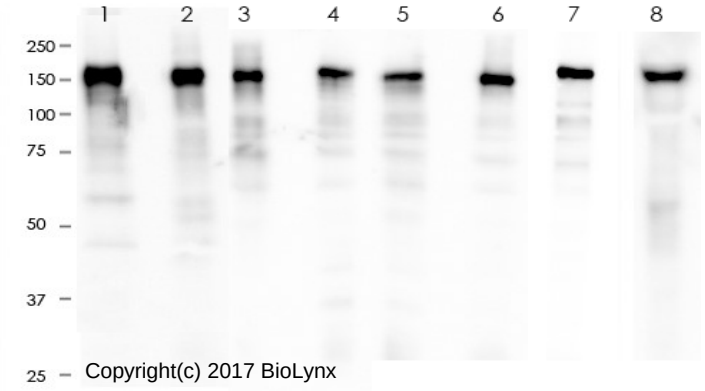
Catalog# BX00007
Clone# RR605

Predicted Molecular Wt: 134kDa
Species Cross-reactivity: Human Mouse Rat
Species cross-reactivity determined by WB
Applications: WB IHC-P IF/ICC FC IP

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P00533

Background:

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. 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. Plays a role in enhancing learning and memory performance.



All lanes: Anti-EGFR antibody at 1:5,000 dilution

Lane 1: PC-3
Lane 2: SH-SY5Y
Lane 3: A549
Lane 4: Hela
Lane 5: A431
Lane 6: HaCat
Lane 7: Mu skin
Lane 8: Rat skin

Predicted MW: 134 kDa
Observed MW: 175 kDa

Lysate at 10 µg per lane
2nd Ab:
G&R HRP(H+L) 1:10,000
Exposure: 100s

Immunogen:

A synthetic peptide corresponding to EGFR residues within the aa1000-1100 (intracellular) of human EGFR was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

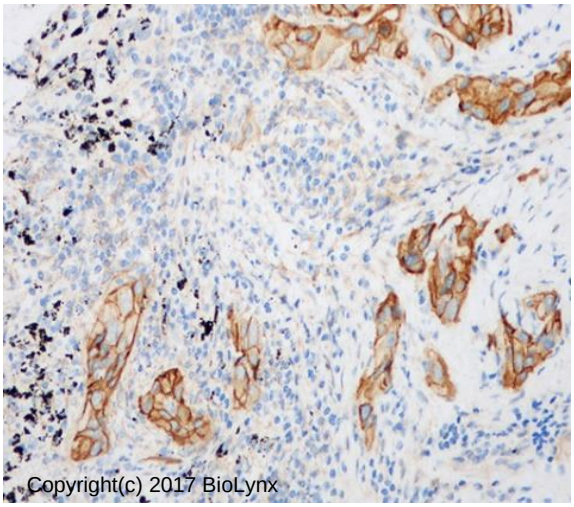
-20°C.

Storage instructions:

Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:

WB:	1:5,000 - 10,000
IHC-P:	1:100 - 1:200
IF/ICC:	1:200 - 1:800
FC:	1:50 - 1:200
IP:	1:10



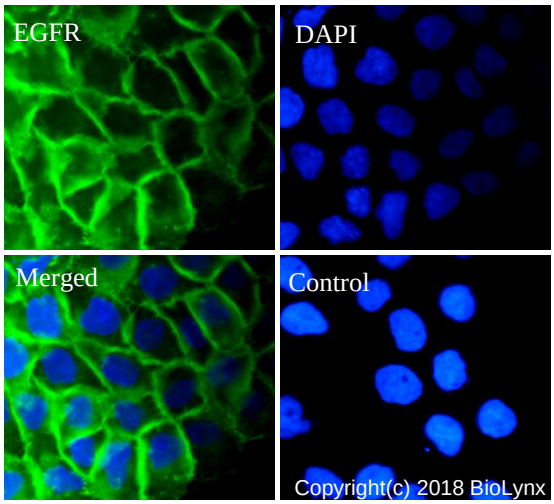
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung cancer tissue labelling EGFR with RR605 at 1:200. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.

Background References:

1. Wang G et al. Sci Rep 6:35783 (2016).

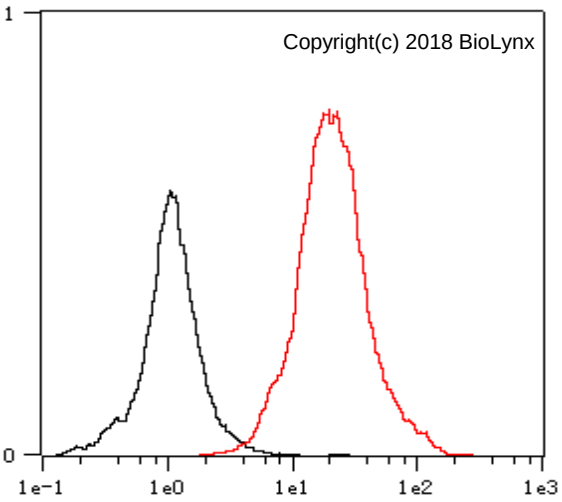
2. Riely, G.J. et al. Clin Cancer Res 12, 7232-41(2006).

Order: 0571-88177686
Fax: 0571-88177681
Support: support@biolynx.cn

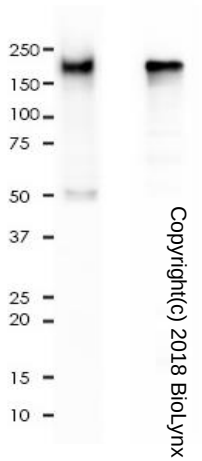


RR605 staining EGFR in A431 cells by IF/ICC (immunofluorescence/immunocytochemistry). Cells were fixed with paraformaldehyde, permeabilized with 0.1% Triton X-100 and blocked with 10% goat serum for half an hour at room temperature. Samples were incubated with primary antibody (1:200) at 4°C. An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG polyclonal was used as the secondary antibody (1:500). DAPI (blue) was used as the nuclear counter stain.

Control: PBS and secondary antibody, An Alexa Fluor® 488-conjugated Goat Anti-Rabbit IgG (1:500).



Overlay histogram showing A431 cells stained with RR605 (Red). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then incubated in the antibody (RR605, 1:200 dilution) in 1x PBS/1% BSA for 30 min at room temperature. The secondary antibody used was a Goat Anti-Rabbit Alexa Fluor® 488 (IgG H+L) at 1:2,000 dilution for 20 min at room temperature. Unlabelled sample (Black) was used as a control.



EGFR was immunoprecipitated from 0.4mg of A431 whole cell lysate with RR605 at 1:10 dilution.
2nd Ab:
GAR HRP for IP 1:500

Lane 1: RR605 IP in A431 whole cell lysate
Lane 2: PBS instead of RR605 in A431 whole cell lysate
Lane 3: A431 whole cell lysate, 10 µg (input)

Exposure: 120s

Product QC'd by:

For research use only. Not for use in diagnostic or therapeutic applications.