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

Rev.: 2018/12/5

ERK2
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

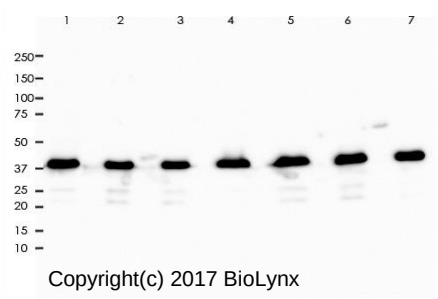
Catalog# BX00060
Clone# RR664

Predicted Molecular Wt: 41kDa
Species Cross-reactivity: Human Mouse Rat
Species cross-reactivity determined by WB
Applications: WB IHC-P IP FC ICC

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P28482

Background:

Serine/threonine kinase which acts as an essential component of the MAP kinase signal transduction pathway. MAPK1/ERK2 and MAPK3/ERK1 are the 2 MAPKs which play an important role in the MAPK/ERK cascade. They participate also in a signaling cascade initiated by activated KIT and KITLG/SCF. Depending on the cellular context, the MAPK/ERK cascade mediates diverse biological functions such as cell growth, adhesion, survival and differentiation through the regulation of transcription, translation, cytoskeletal rearrangements.



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All lanes: Anti-ERK2 antibody at 1:1,000 dilution
Predicted MW: 41 kDa
Observed MW: 42 kDa

Lane 1: JurKat
Lane 2: Hela
Lane 3: 293
Lane 4: A431
Lane 5: Raw264.7
Lane 6: 3T3
Lane 7: PC-12

Lysate at 10 µg per lane
2nd Ab:

Immunogen:

A synthetic peptide corresponding to the C-term of ERK2 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:	1:1,000 - 1:2,000
IHC-P:	1:800 - 1:1,600
IP:	1:20
FC:	1:200 - 1:1,000
ICC:	1:50 - 1:200

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All lanes: Anti-ERK2 antibody at 1:1,000 dilution
Predicted MW: 41 kDa
Observed MW: 42 kDa

Lane 1: Mu Brain
Lane 2: Mu Heart
Lane 3: Mu Kidney
Lane 4: Mu Liver
Lane 5: Rat Heart
Lane 6: Rat Kidney
Lane 7: Rat Liver

Lysate at 10 µg per lane
2nd Ab:
GAR HRP(H+L) 1:10,000

Background References:

1. Li R et al. Oncotarget 8:19354-19364 (2017).

2. He L et al. Exp Ther Med 13:1203-1208 (2017).

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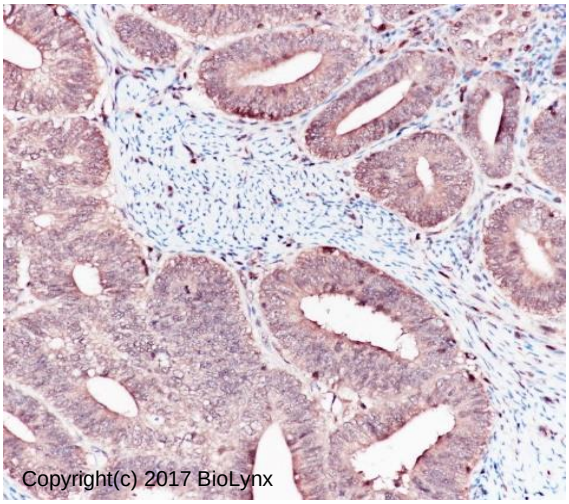
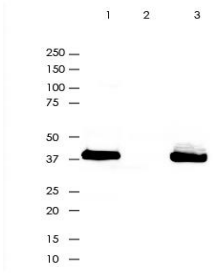


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of endometrium cancer tissue labelling ERK2 with RR664 at 1:1,600. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.



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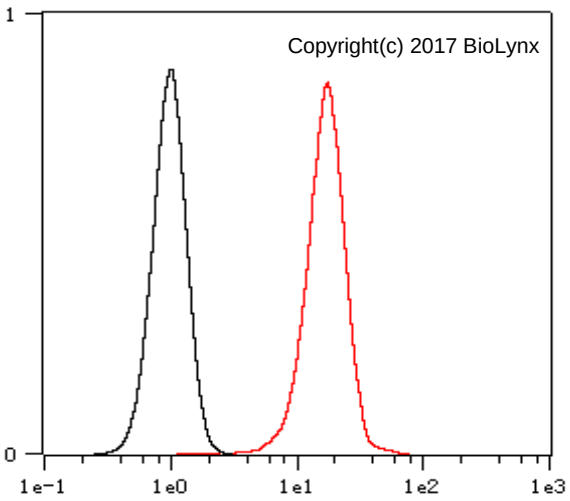
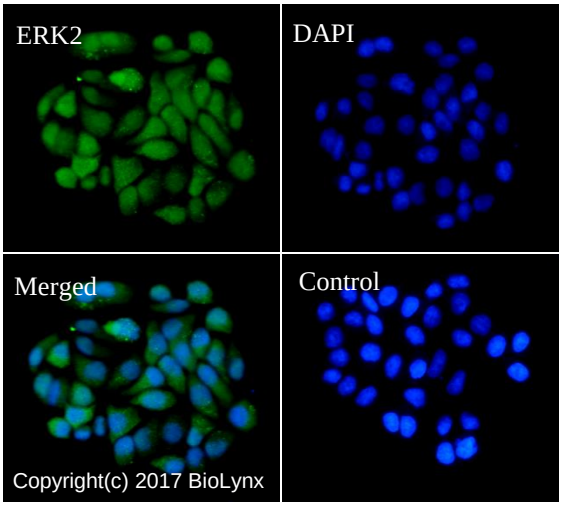
Anti-ERK2 was immunoprecipitated from 0.4mg of A431 lysate with RR664 at 1:20 dilution.
2nd Ab:
GAR HRP for IP 1:10,000
Lane 1: RR664 IP in A431 whole cell lysate
Lane 2: PBS instead of RR664 in A431 whole cell lysate Lane3: A431 whole cell lysate, 10 µg(input)
Exposure: 120s



Overlay histogram showing Hela cells stained with RR664 (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 (RR664 , 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.



RR664 staining ERK2 in Hela cells by ICC/IF (Immunocytochemistry/immunofluorescence). 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 (1:50) 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).

Product QC'd by:

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