

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

Rev.: 2018/12/5

ERK1 **Recombinant Rabbit Monoclonal Antibody**

Product Datasheet Clone# RR671

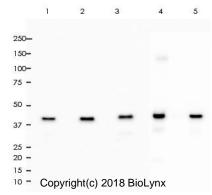
Predicted Molecular Wt: 43kDa Purity: ProA affinity purified IgG

Species Cross-reactivity: Human Mouse Form: Liquid Swissprot ID: P27361 Species cross-reactivity determined by WB

WB IHC-P **Applications:** IF/ICC FC

Background:

ERK1 and ERK2 belongs to the protein kinase superfamily. It is involved in both the initiation and regulation of meiosis, mitosis, and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors such as ELK-1. ERK1/2 catalized the reaction: ATP + a protein = ADP + a phosphoprotein. It is activated by tyrosine phosphorylation in response to insulin and NGF.



All lanes: Anti-ERK1 antibody at 1:2,000 dilution

Predicted MW: 43 kDa Observed MW: 44 kDa

Immunogen:

A synthetic peptide corresponding to the N-term of ERK1 was used as an immunogen.

Storage Buffer:

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

Storage conditions:

-20°C.

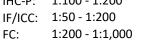
Storage instructions:

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

Recommended Dilutions:

1:2,000 - 1:10,000 WB: IHC-P: 1:100 - 1:200 1:200 - 1:1.000

IP: 1:50



Background References:

1. Tor YS et al. PLoS One 10:e0127441 (2015).

2. Zhu Z et al. J Exp Clin Cancer Res 34:95 (2015).

Lane 1: Hela Lane 2: 293T Lane 3: Raw264.7

Lane 4: A431 Lane 5: A375

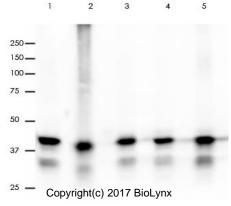
Lysate at 10 µg per lane

2nd Ab:

Catalog# BX00067

GAR HRP(H+L) 1:5,000

Exposure: 50s



All lanes: Anti-ERK1 antibody at 1:2,000 dilution

Predicted MW: 43 kDa Observed MW: 44 kDa

Lane 1: Mu Brain Lysate at 10 µg per lane Lane 2: Mu Kidney 2nd Ab:

Lane 3: Mu Liver GAR HRP(H+L) 1:5,000

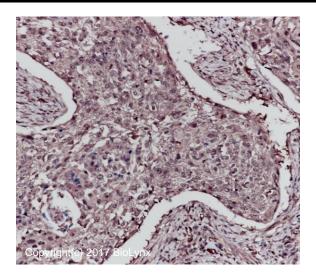
Lane 4: Rat Brain Exposure: 20s

Lane 5: Rat Kidney

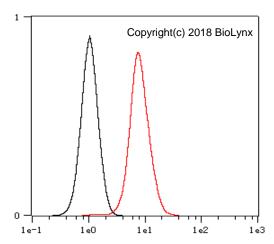


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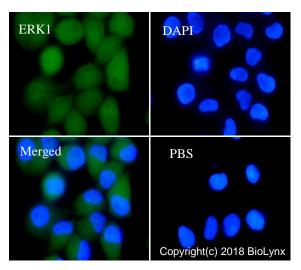
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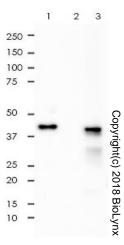
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis Cervix cancer tissue labelling ERK1 with RR671 at 1:200. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0.



Overlay histogram showing Hela cells stained with RR671 (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 (RR671, 1:1,000 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.



RR671 staining ERK1 in Hela 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 (1:50) 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).



ERK1 was immunoprecipitated from 0.4mg of A375 whole cell lysate with RR671 at 1:50 dilution.

2nd Ab:

GAR HRP for IP 1:500

Lane 1: RR671 IP in A375 whole cell lysate

Lane 2: PBS instead of RR671 in A375 whole cell lysate

Lane 3: A375 whole cell lysate, 10 µg (input)

Exposure: 120s

Product QC'd by:

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