

[Primary Antibody]

ERK1/ERK2 Recombinant Rabbit mAb



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ANTIBODIES

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— DATASHEET

Host: Rabbit

Clonality: Recombinant

GeneID: 5594

Target: ERK1/ERK2

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The protein encoded by this gene is a member of the MAPkinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described. [provided by RefSeq, Jul 2008].

Isotype: IgG

CloneNo.: 3A12

SWISS: P27361

Applications: WB (1:1000-5000)

IHC-P (1:200-800)

IHC-F (1:200-800)

IF (1:200-800)

Flow-Cyt (1ug/Test)

ICC/IF (1:100-500)

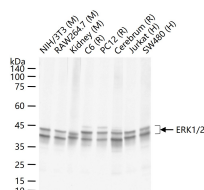
Reactivity: Human, Mouse, Rat

Predicted MW.: 42/44 kDa

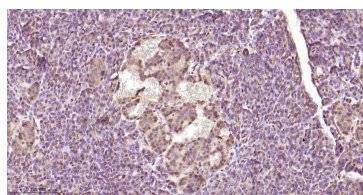
Observed
MW.: 42/44 kDa

Subcellular Location: Nucleus

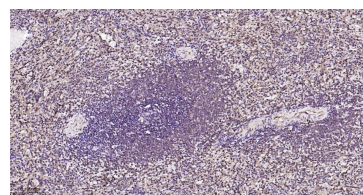
— VALIDATION IMAGES



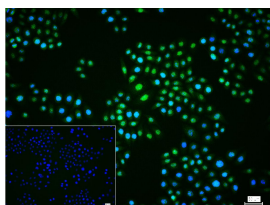
25 ug total protein per lane of various lysates (see on figure) probed with ERK1/2 monoclonal antibody, unconjugated (bsm-52259R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



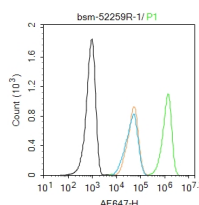
Paraformaldehyde-fixed, paraffin embedded Human Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1/2 Monoclonal Antibody, Unconjugated(bsm-52259R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1/2 Monoclonal Antibody, Unconjugated (bsm-52259R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed Hela (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (ERK1/2) monoclonal Antibody, unconjugated (bsm-52259R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



Blank control: HeLa. Primary Antibody (green line): Rabbit Anti-ERK1/2 antibody (bsm-52259R)
Dilution: 1 μ g /10⁶ cells; Isotype Control
Antibody (orange line): Rabbit IgG. Secondary
Antibody : Goat anti-rabbit IgG-BF647 Dilution:
1 μ g /test. Protocol The cells were fixed with 4%
PFA (10min at room temperature)and then
permeabilized with 90% ice-cold methanol for
20 min at -20°C. The cells were then incubated in
5%BSA to block non-specific protein-protein
interactions for 30 min at room temperature
.Cells stained with Primary Antibody for 30 min

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

at room temperature. The secondary antibody
used for 40 min at room temperature.
Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=8.2]** Minghao Yan. et al. Screening, identification and functional validation of Microcystin-LR direct binding target proteins based on thermal proteomics profiling. SCI TOTAL ENVIRON. 2025 Jan;958:178047 WB ;Human. 39675292
- **[IF=7.675]** Honghong Zhan. et al. Oxybaphus himalaicus Mitigates Lipopolysaccharide-Induced Acute Kidney Injury by Inhibiting TLR4/MD2 Complex Formation. ANTIOXIDANTS-BASEL. 2022 Dec;11(12):2307 WB ;Mouse. 10.3390/antiox11122307
- **[IF=5.6]** Myeongjoo Son. et al. Olive Flounder By-Product Prozyme2000P Hydrolysate Ameliorates Age-Related Kidney Decline by Inhibiting Ferroptosis. INT J MOL SCI. 2024 Jan;25(9):4668 WB ;Mouse. 38731887
- **[IF=4.6]** Tianqi Liu. et al. Taurine attenuates Listeria monocytogenes-induced inflammation and pyroptosis in mouse model by regulating MAPK and NLRP3/caspase-1/GSDMD pathways. MSYSTEMS. 2026 Feb WB ;Mouse. 41627031
- **[IF=4.6]** Xiaoying Yu. et al. Therapeutic Effect of Taxifolin on Bacterial Meningitis Associated with Inhibition of PI3K/AKT and MAPK Signaling. INT J ANTIMICROB AG. 2025 Aug;;107601 WB ;Mouse. 40854451