

bs-2637R**[Primary Antibody]****ERK1/2 Rabbit pAb****Bioss**
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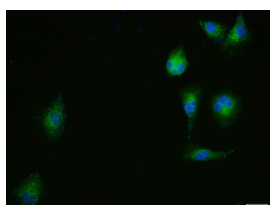
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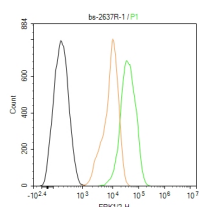
400-901-9800

— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 5594 Target: ERK1/2 Immunogen: KLH conjugated synthetic peptide derived from human ERK1/2: 251-358/358. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. 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 SWISS: P27361	Applications: Flow-Cyt (1 µg/Test) ICC/IF (1:50-200) Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse, Goat) Predicted MW.: 42/44 kDa Observed MW.: 38 kDa Subcellular Location: Nucleus
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— VALIDATION IMAGES —

Tissue/cell: HUVEC cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (ERK1 + ERK2) Polyclonal Antibody, Unconjugated (bs-2637R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-FITC) at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



The HeLa (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at r.t.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green): Rabbit Anti-ERK1/2 antibody (bs-2637R): 1 µg/10⁶ cells; Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=9.473]** Shuting Wei. et al. Particulate matter induces airway epithelial barrier dysfunction in vivo and in vitro: from a more realistic inhalation scenario. ENVIRON SCI-NANO. 2022 Aug;9(8):2665-2677 WB ;Human. 10.1039/D2EN00390B
- **[IF=7.7]** Qiwen Peng. et al. Laser-written nanometal-doped graphene on paper for Alzheimer' s multi-target sensing. SENSOR ACTUAT B-CHEM. 2026 Feb;448:138973 ;. 10.1016/j.snb.2025.138973
- **[IF=6.5]** Cai Jieqiong. et al. Dietary β-hydroxy-β-methyl butyrate supplementation improves intestinal health and

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- growth performance in Tibetan sheep lambs via modulating small intestinal microbiota. J ANIM SCI BIOTECHNO. 2026 Dec;17(1):25 WB ;Tibetan lamb. 41656341
- **[IF=6.317]** Shiqing Sun. et al. Pharmacodynamic structure of deer antler base protein and its mammary gland hyperplasia inhibition mechanism by mediating Raf-1/MEK/ERK signaling pathway activation. FOOD FUNCT. 2023 Mar;; WB ;Rat. 36939833
 - **[IF=6.3]** Rui Sun. et al. Epigallocatechin-3-Gallate Suppresses Glioma by Targeting Integrin $\alpha\beta3$ /FAK/ERK Signaling Axis and Matrix Metalloproteinases. PHYTOTHER RES. 2026 Mar;; WB ;Human. 41839532