bs-2637R **[Primary Antibody]**

ERK1 + ERK2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5594 **SWISS:** P27361

Target: ERK1 + ERK2

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 extracellularsignal-regulated kinases (ERKs), act in a signaling cascade thatregulates various cellular processes such as proliferation,differentiation, and cell cycle progression in response to avariety of extracellular signals. This kinase is activated byupstream kinases, resulting in its translocation to the nucleuswhere it phosphorylates nuclear targets. Alternatively splicedtranscript variants encoding different protein isoforms have beendescribed. [provided by RefSeq, Jul 2008].

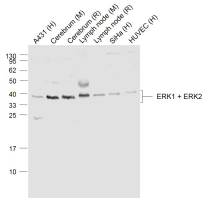
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1 µg/Test)
ICC/IF (1:50-200)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse, Goat)

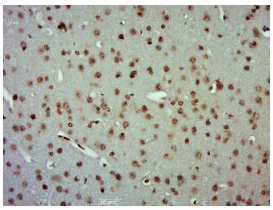
Predicted MW.: 42/44 kDa

Subcellular Location: Nucleus

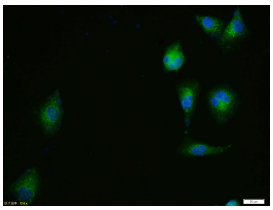
VALIDATION IMAGES



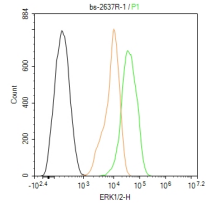
Sample: Lane 1: A431 (Human) Cell Lysate at 30 ug Lane 2: Cerebrum (Mouse) Lysate at 40 ug Lane 3: Cerebrum (Rat) Lysate at 40 ug Lane 4: Lymph node (Mouse) Lysate at 40 ug Lane 5: Lymph node (Rat) Lysate at 40 ug Lane 6: SiHa (Human) Cell Lysate at 30 ug Lane 7: HUVEC (Human) Cell Lysate at 30 ug Primary: Anti-ERK1 + ERK2 (bs-2637R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 44’ 42 kD Observed band size: 38 kD



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ERK1 + ERK2) Polyclonal Antibody, Unconjugated (bs-2637R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



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/10^6 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. Particle matters induce airway epithelial barrier dysfunction in vivo and in vitro: from a more realistic inhalation scenario. ENVIRON SCI-NANO. 2022 Jun;: WB ;Human. 10.1039/D2EN00390B
- **[IF=5.6]** Keyi Nong. et al. Effect of the Pseudopleuronectes americanus-derived Pleurocidin on DSS-induced Ulcerative colitis in mice and its preliminary molecular mechanisms. INT IMMUNOPHARMACOL. 2024 Mar;130:111757 WB ;Mouse. 38422770
- **[IF=5.923]** Junfeng Ke. et al. CTI-2 Inhibits Metastasis and Epithelial-Mesenchymal Transition of Breast Cancer Cells by Modulating MAPK Signaling Pathway. Int J Mol Sci. 2021 Jan;22(22):12229 WB,IF ;Human. 34830111
- **[IF=5.614]** Zhu J et al. SPARC Promotes Self‐Renewal of Limbal Epithelial Stem Cells and Ocular Surface Restoration through JNK and p38‐MAPK Signaling Pathways. Stem Cells. 2019 Oct 23. WB ;Rabbit. 31644832
- **[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