

bs-3016R**[Primary Antibody]****phospho-ERK1/2 (Thr202 + Tyr204) Rabbit pAb****BioSS**
ANTIBODIES

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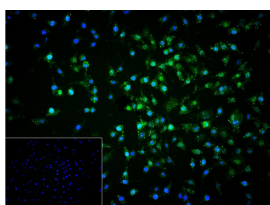
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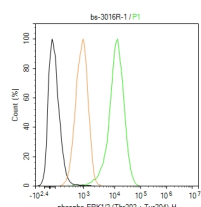
400-901-9800

— DATASHEET —

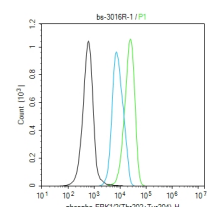
Host: Rabbit Clonality: Polyclonal Target: ERK1/2 (Thr202 + Tyr204) Immunogen: KLH conjugated Synthesised phosphopeptide derived from mouse p44/42 MAPK around the phosphorylation site of Thr202/Tyr204: FL(p-T)E(p-Y)VA. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M 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 Applications: Flow-Cyt (1:50-100) ICC/IF (1:100-500) Reactivity: Human, Mouse Predicted MW.: 41 kDa Subcellular Location: Nucleus
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— VALIDATION IMAGES —

4% Paraformaldehyde-fixed NIH/3T3 (treated with 200 ng/ml TPA/PMA for 30 minutes) (M) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (phospho-ERK1/2 (Thr202 + Tyr204)) polyclonal Antibody, unconjugated (bs-3016R) 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.



The Jurkat (treated with 200 ng/ml TPA/PMA for 30 minutes) (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.). Cells stained with Primary Antibody for 30 min at room temperature, followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green): Rabbit Anti-phospho-ERK1/2 (Thr202 + Tyr204) antibody (bs-3016R, 1:100); Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.



The NIH/3T3 (treated with 200 ng/ml TPA/PMA for 30 minutes) (M) 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.). Primary Antibody (green): Rabbit Anti-phospho-ERK1/2 (Thr202 + Tyr204) antibody (bs-3016R; 1:100); Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488 (bs-60295G-BF488); 1 µg/test. Blank control (black): PBS. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=14.7]** Li Yin. et al. Macrophage P2Y6R activation aggravates psoriatic inflammation through IL-27-mediated Th1 responses. ACTA PHARM SIN B. 2024 Jun; **WB** ;Mouse. 10.1016/j.apsb.2024.06.008
- **[IF=14.528]** Dejun Xu. et al. Melatonin protects mouse testes from palmitic acid - induced lipotoxicity by attenuating

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- oxidative stress and DNA damage in a SIRT1 - dependent manner. J Pineal Res. 2020 Nov;69(4):e12690 WB ;Mouse. 32761924
- **[IF=11]** Hao Li. et al. Somatic PDGFRB activating variants promote smooth muscle cell phenotype modulation in intracranial fusiform aneurysm. J BIOMED SCI. 2024 Dec;31(1):1-17 IF ;Mouse. 38741091
 - **[IF=10.633]** Fanglin Wang. et al. Adipose-derived stem cells with miR-150-5p inhibition laden in hydroxyapatite/tricalcium phosphate ceramic powders promote osteogenesis via regulating Notch3 and activating FAK/ERK and RhoA. ACTA BIOMATER. 2022 Oct;; WB,IF ;Human. 36206975
 - **[IF=9.078]** Tzu-Hsiang Lin. et al. A bilineage thermosensitive hydrogel system for stimulation of mesenchymal stem cell differentiation and enhancement of osteochondral regeneration. Compos Part B-Eng. 2022 Jan;;109614 ICC ;Rabbit. 10.1016/j.compositesb.2022.109614