bs-1522R **[Primary Antibody]**

phospho-ERK1 + 2 (Thr183/Tyr185) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

Target: ERK1 + 2 (Thr183/Tyr185)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from mouse ERK1 around the phosphorylation site of Thr183/Tyr185: FL(p-T)E(p-Y)V.

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].

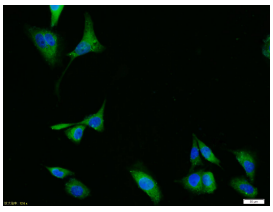
Applications: **ICC/IF** (1:100)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Cow, Chicken, Dog, GuineaPig, Horse)

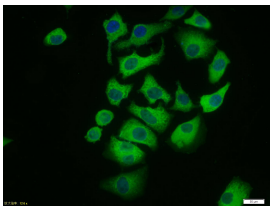
Predicted MW.: 42/44 kDa

Subcellular Location: Nucleus

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 (phospho-ERK1 + 2 (Thr183/Tyr185)) Polyclonal Antibody, Unconjugated (bs-1522R) 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.



Tissue/cell: Hela 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 (phospho-ERK1 + 2 (Thr183/Tyr185)) polyclonal Antibody, Unconjugated (bs-1522R) 1:100, 90 minutes at 37°C; followed by a FITC conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

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=7.963]** Meiqiong Wu. et al. Suppression of NADPH oxidase 4 inhibits PM2.5-induced cardiac fibrosis through ROS-P38 MAPK pathway. SCI TOTAL ENVIRON. 2022 Apr;:155558 WB ;Mouse,Rat. 35504386
- **[IF=8.2]** Xinyun Qin. et al. Regulation of the intestinal flora using polysaccharides from Callicarpa nudiflora Hook to alleviate ulcerative colitis and the molecular mechanisms involved. INT J BIOL MACROMOL. 2024 Feb;258:128887 WB

;Mouse. 38118262

- **[IF=5.6]** Xinyun Qin. et al. Porcine-derived antimicrobial peptide PR39 alleviates DSS-induced colitis via the NF-κB/MAPK pathway. INT IMMUNOPHARMACOL. 2024 Jan;127:111385 WB ;Mouse. 38113690
- **[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