

bsm-63322R**[Primary Antibody]**

ERK1/ERK2 (p-T202/Y204/T185/Y187) Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit

Isotype: IgG

Clonality: Recombinant

CloneNo.: 5A12

GeneID: 5594

SWISS: P27361

Target: ERK1/ERK2 (p-T202/Y204/T185/Y187)

Immunogen: A synthesized peptide derived from human ERK1 around the phosphorylation site of T202/Y204: FL-pT-E-pY-VA.

Purification: 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].

Applications: WB (1:500-2000)

Flow-Cyt (1:100-200)

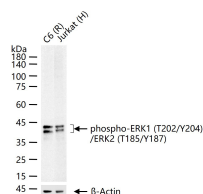
ICC/IF (1:100-200)

Reactivity: Human, Rat
(predicted: Mouse, Pig)

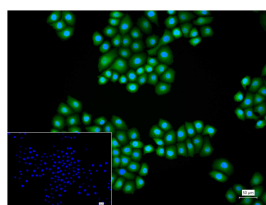
**Observed
MW.:** 42/44 kDa

**Subcellular
Location:** Nucleus

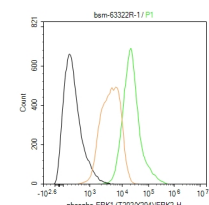
VALIDATION IMAGES



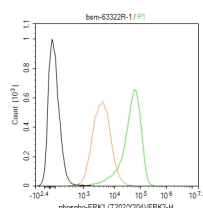
25 ug total protein per lane of various lysates (see on figure) probed with phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187) monoclonal antibody, unconjugated (bsm-63322R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



4% Paraformaldehyde-fixed HeLa (treated with 200 ng/ml TPA/PMA for 30 minutes) (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187)) monoclonal Antibody, unconjugated (bsm-63322R) 1:100, 90 min at 37°C; followed by BF488 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 C6 (treated with 200 ng/ml PMA for 30 minutes) (Rat) 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-phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187) antibody (bsm-63322R, 1:100); Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.



The Jurkat (treated with 200 ng/ml 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.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Rabbit Anti-phospho-ERK1 (T202/Y204)/ERK2 (T185/Y187) antibody (bsm-63322R,1:100); Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=4.8]** Wei Liu. et al. Kaixin San Jiawei granule improves cognitive function and alleviates neuronal damage in Alzheimer' s disease via multi-component and multi-target mechanisms. FRONT PHARMACOL. 2025 Sep;16: WB ;Mouse. 41050397