

bsm-54491R**[Primary Antibody]**

phospho-ERK1 (Thr202)+ ERK2 (Thr185) Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit

Isotype: IgG

Clonality: Recombinant

CloneNo.: 6H2

GeneID: 5594

SWISS: P27361

Target: ERK1 (Thr202)+ ERK2 (Thr185)

Immunogen: A synthesized peptide derived from human ERK1 around the phosphorylation site of T202: FL-pT-EY.

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].

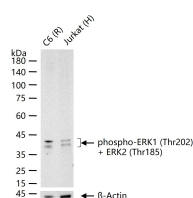
Applications: WB (1:500-2000)
IHC-P (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)
Flow-Cyt (1:50-100)
ICC/IF (1:50-200)

Reactivity: Human, Mouse, Rat

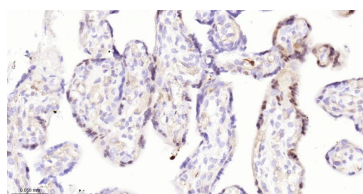
Predicted MW.: 41 kDa

Subcellular Location: Nucleus

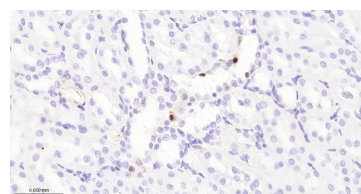
VALIDATION IMAGES



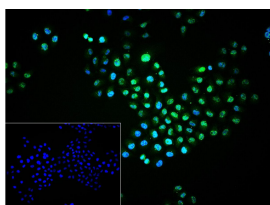
25 ug total protein per lane of various lysates (see on figure) probed with phospho-ERK1 (Thr202)+ ERK2 (Thr185) monoclonal antibody, unconjugated (bsm-54491R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



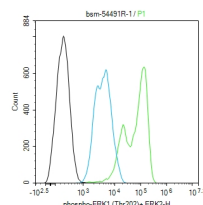
Paraformaldehyde-fixed, paraffin embedded Human Placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-ERK1 (Thr202)+ ERK2 (Thr185) Monoclonal Antibody, Unconjugated (bsm-54491R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



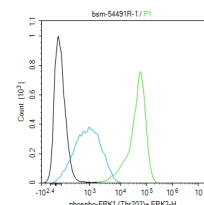
Paraformaldehyde-fixed, paraffin embedded Rat Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-ERK1 (Thr202)+ ERK2 (Thr185) Monoclonal Antibody, Unconjugated (bsm-54491R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed HeLa (treated with 200 ng/ml PMA for 30 minutes) (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (phospho-ERK1 (Thr202)+ ERK2 (Thr185)) monoclonal Antibody, unconjugated (bsm-54491R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody



The HeLa (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.). Primary Antibody (green): Rabbit Anti-



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.). Primary Antibody (green): Rabbit Anti-

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

(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.

phospho-ERK1 (Thr202)+ ERK2 (Thr185 antibody (bsm-54491R,1:100); Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488 (bs-60295G-BF488):1µg/test.Blank control (black): PBS. Acquisition of 20,000 events was performed.

phospho-ERK1 (Thr202)+ ERK2 (Thr185 antibody (bsm-54491R,1:100); Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488 (bs-60295G-BF488):1µg/test.Blank control (black): PBS. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=5.6]** Myeongjoo Son. et al. Olive Flounder By-Product Prozyme2000P Hydrolysate Ameliorates Age-Related Kidney Decline by Inhibiting Ferroptosis. INT J MOL SCI. 2024 Jan;25(9):4668 WB ;Mouse. 38731887
- **[IF=4.2]** Xiaohan Gao. et al. Dietary Supplement With Tribulus terrestris L. Extract Exhibits Protective Effects on Neuroinflammation. MOL NUTR FOOD RES. 2025 Jun;;e70006 WB ;Mouse. 40583320