

## ERK1/2 Recombinant Rabbit mAb

Catalog Number: bsm-52259R

Target Protein: ERK1/2

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Recombinant

Clone No.: 3A12

Isotype: IgG

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

Reactivity: Human, Mouse, Rat

Predicted MW: 42/44 kDa

Entrez Gene: 5594

Swiss Prot: P27361

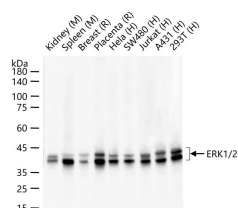
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

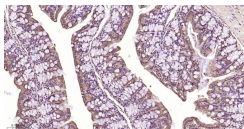
Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**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].

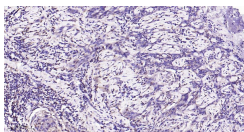
### VALIDATION IMAGES



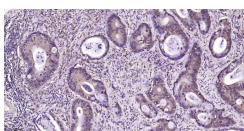
25 ug total protein per lane of various lysates (see on figure) probed with ERK1/2 monoclonal antibody, unconjugated (bsm-52259R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



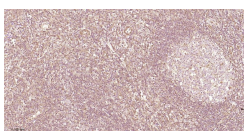
Paraformaldehyde-fixed, paraffin embedded Mouse Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1/2 Monoclonal Antibody, Unconjugated(bsm-52259R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



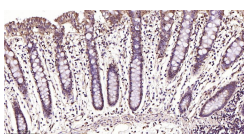
Paraformaldehyde-fixed, paraffin embedded Human Cervical Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1/2 Monoclonal Antibody, Unconjugated(bsm-52259R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1/2 Monoclonal Antibody, Unconjugated(bsm-52259R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Tonsil; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1/2 Monoclonal Antibody, Unconjugated(bsm-52259R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Colon; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1/2 Monoclonal Antibody, Unconjugated(bsm-52259R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=7.675] Honghong Zhan. et al. Oxybaphus himalaicus Mitigates Lipopolysaccharide-Induced Acute Kidney Injury by Inhibiting TLR4/MD2 Complex Formation. ANTIOXIDANTS-BASEL. 2022 Dec;11(12):2307 WB ; Mouse . 10.3390/antiox11122307

[IF=8.2] Minghao Yan. et al. Screening, identification and functional validation of Microcystin-LR direct binding target proteins based on thermal proteomics profiling. SCI TOTAL ENVIRON. 2025 Jan;958:178047 WB ; Human . 39675292

[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=4.6] Shorook Ghanem. et al. Tissue factor-heparanase complex: Intracellular non-hemostatic effects. Research and Practice in Thrombosis and Haemostasis. 2023 Aug;:102179 IF ; Human . 10.1016/j.rpth.2023.102179

[IF=4.411] Yudan Zhao. et al. COX-2 is required to mediate crosstalk of ROS-dependent activation of MAPK/NF-κB signaling with pro-inflammatory response and defense-related NO enhancement during challenge of macrophage-like cell line with Giardia duodenalis. PLOS NEGLECT TROP D. 2022 Apr;16(4):e0010402 WB ; Mouse . 35482821