bsm-52259R **[Primary Antibody]**

ERK1/2 Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 3A12
GeneID: 5594
SWISS: P27361
Target: ERK1/2
Purification: affinity purified by Protein A
Concentration: 1mg/ml
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 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].

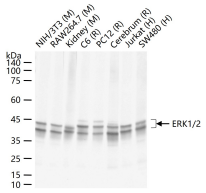
Applications: **WB** (1:1000-5000)
IHC-P (1:200-800)
IHC-F (1:200-800)
IF (1:200-800)
Flow-Cyt (1ug/Test)
ICC/IF (1:100-500)

Reactivity: Human, Mouse, Rat

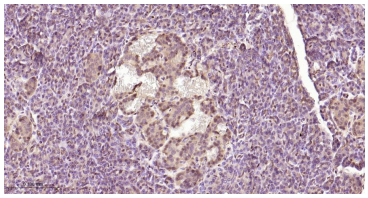
Predicted MW.: 42/44 kDa

Subcellular Location: Nucleus

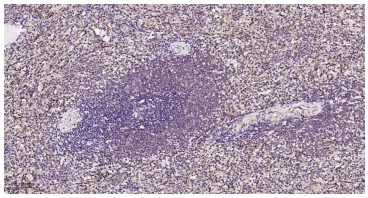
VALIDATION IMAGES



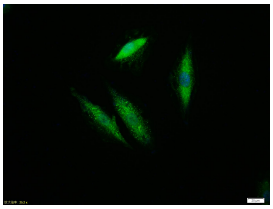
25 ug total protein per lane of various lysates (see on figure) probed with ERK1/2 monoclonal antibody, unconjugated (bsm-52259R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



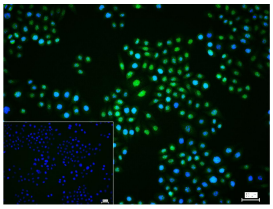
Paraformaldehyde-fixed, paraffin embedded Human Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1/2 Monoclonal Antibody, Unconjugated(bsm-52259R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



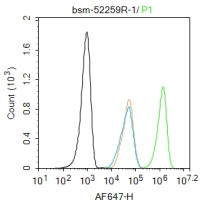
Paraformaldehyde-fixed, paraffin embedded Human Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ERK1/2 Monoclonal Antibody, Unconjugated(bsm-52259R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Tissue/cell:A549 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 (ERK1/2) monoclonal Antibody, Unconjugated (bsm-52259R) 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.



4% Paraformaldehyde-fixed Hela (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (ERK1/2) monoclonal Antibody, unconjugated (bsm-52259R) 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.



Blank control: Hela. Primary Antibody (green line): Rabbit Anti-ERK1/2 antibody (bsm-52259R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min

at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[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]** Xiaoying Yu. et al. Therapeutic Effect of Taxifolin on Bacterial Meningitis Associated with Inhibition of PI3K/AKT and MAPK Signaling. INT J ANTIMICROB AG. 2025 Aug;:107601 WB ;Mouse. 40854451
- **[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