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ERK2 Recombinant Rabbit mAb

Catalog Number: bsm-52068R

Target Protein: ERK2 Concentration: 1mg/ml

Form: Liquid Host: Rabbit

Clonality: Recombinant

Clone No.: 3G1 Isotype: IgG

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

(1:50-200), IP (1:20-50)

Reactivity: Human, Mouse, Rat

Predicted MW: 42 kDa Entrez Gene: 5594 Swiss Prot: P28482

Purification: affinity purified by Protein A

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

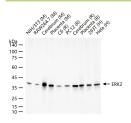
known as extracellularsignal-regulated kinases (ERKs), act in a signaling cascade

that regulates various cellular processes such as proliferation, differentiation, and cell cycle

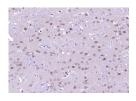
progression in response to avariety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleuswhere it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms

have beendescribed. [provided by RefSeq, Jul 2008].

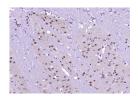
VALIDATION IMAGES



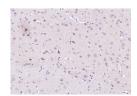
25 ug total protein per lane of various lysates (see on figure) probed with ERK2 monoclonal antibody, unconjugated (bsm-52068R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



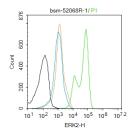
Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ERK2) Monoclonal Antibody, Unconjugated (bsm-52068R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ERK2) Monoclonal Antibody, Unconjugated (bsm-52068R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ERK2) Monoclonal Antibody, Unconjugated (bsm-52068R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Blank control:K562. Primary Antibody (green line): Rabbit Anti-ERK2 antibody (bs-52068R) Dilution: $1\mu g$ /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: $0.5\mu g$ /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.

PRODUCT SPECIFIC PUBLICATIONS

[IF=5.923] Won-Sik Shin. et al. PTK7, a Catalytically Inactive Receptor Tyrosine Kinase, Increases Oncogenic Phenotypes in Xenograft Tumors of Esophageal Squamous Cell Carcinoma KYSE-30 Cells. Int J Mol Sci. 2022 Jan;23(4):2391 WB; Human. 10.3390/ijms23042391 [IF=6.208] Jae Hoon Kim. et al. Anti-PTK7 Monoclonal Antibodies Exhibit Anti-Tumor Activity at the Cellular Level and in Mouse Xenograft Models of Esophageal Squamous Cell Carcinoma. INT J MOL SCI. 2022 Jan;23(20):12195 WB; Human. 36293051

[IF=5.6] Won-Sik Shin. et al. Knockdown of PTK7 Reduces the Oncogenic Potential of Breast Cancer Cells by Impeding Receptor Tyrosine Kinase Signaling. INT J MOL SCI. 2023 Jan;24(15):12173 WB; Human. 37569547