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## ERK1/2 Mouse mAb

Catalog Number: bsm-33232M

Target Protein: ERK1/2

Concentration: 1mg/ml

Form: Size : 50ul/100ul/200ul

Liquid

Size : 200ug (PBS only)

Lyophilized

Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.

Host: Mouse

Clonality: Monoclonal

Clone No.: 8C2

Isotype: IgG

Applications: WB (1:500-1000), IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500)

Reactivity: Mouse, Rat (predicted:Human)

Predicted MW: 43 kDa

Entrez Gene: 5594

Swiss Prot: P27361

Purification: affinity purified by Protein G

Storage: Size : 50ul/100ul/200ul

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

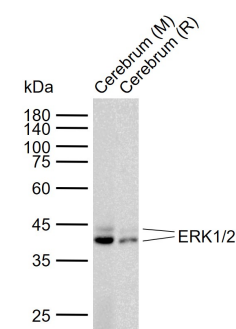
Size : 200ug (PBS only)

0.01M PBS

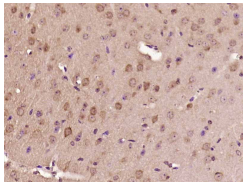
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**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].

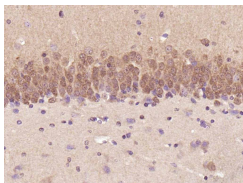
## VALIDATION IMAGES



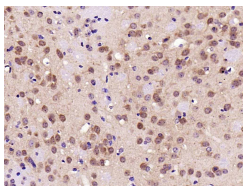
Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Rat Cerebrum tissue lysates Primary: Anti-ERK1/2 (bsm-33232M) at 1/1000 dilution Secondary: Alexa Fluor 790 AffiniPure Goat Anti-Mouse IgG, light chain specific Predicted band size: 43 kDa Observed band size: 44,42 kDa



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 (ERK1/2) Monoclonal Antibody, Unconjugated (bsm-33232M-8C2) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes 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 (ERK1+2) Polyclonal Antibody, Unconjugated (bsm-33232M) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) 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 (ERK1+2) Polyclonal Antibody, Unconjugated (bsm-33232M) at 1:2000 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=8.2] Jialei Tian. et al. Chondroitin sulphate modified MoS2 nanoenzyme with multifunctional activities for treatment of Alzheimer's disease. INT J BIOL MACROMOL. 2024 May;266:131425 WB ; Human . 38583830

[IF=5.6] Yaxi Zhou. et al. Silkworm pupa protein peptide improved DSS-induced colitis in C57BL/6 mice through the MAPK/NF-κB signaling pathway. J FUNCT FOODS. 2023 Nov;110:105852 WB ; Mouse . 10.1016/j.jff.2023.105852

[IF=3.8] Yaxi Zhou. et al. Silkworm pupa protein-derived peptides alleviate LPS-induced inflammatory response in RAW264.7 macrophage cells through the NF-κB/MAPK/PI3K-AKT signaling pathway. Journal of Agriculture and Food Research. 2024 Jun;16:101165 WB ; Mouse . 10.1016/j.jafr.2024.101165

[IF=2.4] Xiaoxiang Hu. et al. The suppressive role of NLRP6 in host defense against Streptococcus suis infection. VET MICROBIOL. 2024 Jun;110166 WB ; Mouse . 38968694

[IF=1.9] Lan Yan-Ping. et al. Analysis of the functional role and mRNA expression of GABABR in the nucleus accumbens of cocaine-addicted rats. J CHIN MED ASSOC. 2024 Jun;10.1097/JCMA.0000000000001119 IHC,WB ; Rat . 38860774