

bsm-33232M**[Primary Antibody]****ERK1/2 Mouse mAb****Bioss**
ANTIBODIES

www.bioss.com.cn

sales@bioss.com.cn

techsupport@bioss.com.cn

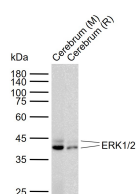
400-901-9800

DATASHEET**Host:** Mouse**Isotype:** IgG**Clonality:** Monoclonal**CloneNo.:** 8C2**GeneID:** 5594**SWISS:** P27361**Target:** ERK1/2**Purification:** affinity purified by Protein G**Concentration:** 1mg/ml

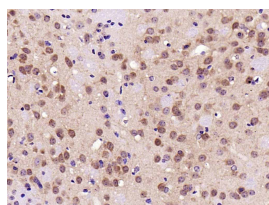
Storage: Size : 50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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].

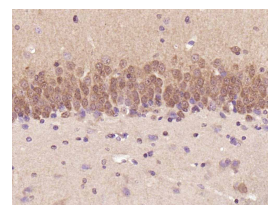
Applications: **WB** (1:1000-5000)
IHC-P (1:500-2000)
IHC-F (1:500-2000)
IF (1:500-2000)
Flow-Cyt (1µg/Test)

Reactivity: Human, Mouse, Rat**Predicted MW.:** 43 kDa**Observed MW.:** 44,42 kDa**Subcellular Location:** Nucleus**VALIDATION IMAGES**

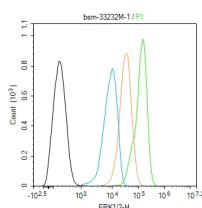
Sample: Lane 1: Mouse Cerebrum tissue lysates
Lane 2: Rat Cerebrum tissue lysates
Primary: Anti-ERK1/2 (bsm-33232M) at 1/1000 dilution
Secondary: Alexa Fluor 790 AffiniPure Goat Anti-Mouse IgG, light chain specific
Predicted band size: 43 kDa
Observed band size: 44,42 kDa



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) 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 (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.



The HeLa (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

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

protein-protein interactions (30 min at r.t.). Primary Antibody (green): Mouse Anti-ERK1/2 antibody (bsm-33232M): 1 µg/10⁶ cells; Secondary Antibody (white blue): Goat anti-Mouse IgG-BF488 (bs-60296G-BF488): 1 µg/test. Isotype Control (orange): Mouse IgG (bs-0296P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

— SELECTED CITATIONS —

- **[IF=8.3]** Zhen-Ling Liu. et al. Tongmai Yishen Formula alleviates post-stroke depression by restoring neuronal homeostasis in the lateral habenula via the ITPKA signaling pathway. PHYTOMEDICINE. 2026 Jan;;157866 WB ;Human,Rat. 41655549
- **[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=5.7]** Zhou Xue. et al. The immunomodulatory effects of sodium new houttuyfonate on different states of macrophage against Aspergillus fumigatus infection via distinct mechanism in invasive pulmonary aspergillosis. CHIN MED-UK. 2025 Dec;20(1):1-17 WB ;Mouse. 40597229
- **[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=4.6]** Feng Xian Hu. et al. TRPC6 Mediates Neuronal Hyperexcitability in the Lateral Habenula to Drive Trigeminal Neuralgia-Associated Anxiety. NEUROPHARMACOLOGY. 2025 Dec;;110818 WB ;Mouse. 41478600