
ERK1/2 Mouse mAb

Catalog Number: bsm-33337M

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.: 3G4

Isotype: IgG

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

Reactivity: Human, Mouse, Rat

Predicted MW: 43 kDa

Entrez Gene: 5594

Swiss Prot: P27361

Source: KLH conjugated synthetic peptide derived from human ERK1/2: 151-250/380.

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.

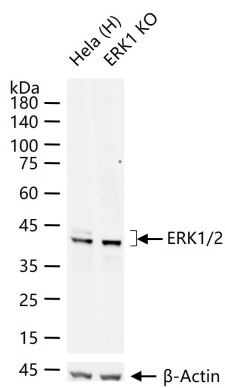
Size : 200ug (PBS only)

0.01M PBS

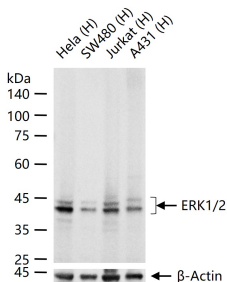
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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].

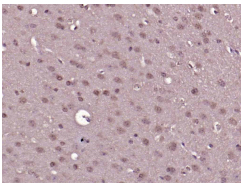
VALIDATION IMAGES



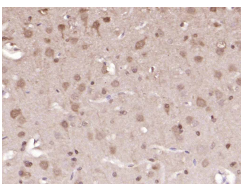
25 ug total protein per lane of various lysates (see on figure) probed with ERK1/2 monoclonal antibody, unconjugated (bsm-33337M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



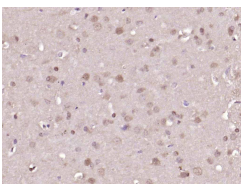
25 ug total protein per lane of various lysates (see on figure) probed with ERK1/2 monoclonal antibody, unconjugated (bsm-33337M) at 1:500 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



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) Monoclonal Antibody, Unconjugated (ascites of bsm-33337M) 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) Monoclonal Antibody, Unconjugated (ascites of bsm-33337M) 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) Monoclonal Antibody, Unconjugated (ascites of bsm-33337M) 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] Xinyun Qin. et al. Regulation of the intestinal flora using polysaccharides from *Callicarpa nudiflora* Hook to alleviate ulcerative colitis and the molecular mechanisms involved. INT J BIOL MACROMOL. 2024 Feb;258:128887 WB ; Mouse . 38118262

[IF=7.7] Yin-Ku Lin. et al. Systematic establishment of the relationship between skin absorption and toxicity of furanoids via in silico, in vitro, and in vivo assessments. ENVIRON RES. 2024 Nov;261:119757 WB ; Human . 39128665

[IF=8.025] Huanshan He. et al. Lactoferrin alleviates spermatogenesis dysfunction caused by bisphenol A and cadmium via ameliorating disordered autophagy, apoptosis and oxidative stress. INT J BIOL MACROMOL. 2022 Dec;222:1048 WB ; Mouse . 36183753

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

[IF=7.129] Qianfeng Liu. et al. Perfluoroalkyl substances promote breast cancer progression via ER α and GPER mediated PI3K/Akt and MAPK/Erk signaling pathways. ECOTOX ENVIRON SAFE. 2023 Jun;258:114980 WB ; Human . 37148752

[IF=5.6] Xinyun Qin. et al. Porcine-derived antimicrobial peptide PR39 alleviates DSS-induced colitis via the NF- κ B/MAPK pathway. INT IMMUNOPHARMACOL. 2024 Jan;127:111385 WB ; Mouse . 38113690