

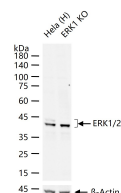
bsm-33337M**[Primary Antibody]****ERK1/2 Mouse mAb****Bioss**
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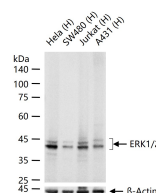
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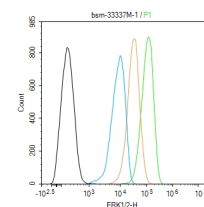
400-901-9800

DATASHEET**Host:** Mouse**Clonality:** Monoclonal**GeneID:** 5594**Target:** ERK1/2**Immunogen:** KLH conjugated synthetic peptide derived from human ERK1/2: 151-250/380.**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].**Isotype:** IgG**CloneNo.:** 3G4**SWISS:** P27361**Applications:** WB (1:500-5000)**Flow-Cyt** (1µg/Test)**Reactivity:** Human**Predicted MW.:** 43 kDa**Observed MW.:** 44,42 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-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.



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 protein-protein interactions (30 min at r.t.). Primary Antibody (green): Mouse Anti-ERK1/2 antibody (bsm-33337M): 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=8.2]** 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

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

- **[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
- **[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=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=6.1]** Zhineng Liu. et al. Oral administration of LfcinB alleviates DSS-induced colitis by improving the intestinal barrier and microbiota. FOOD FUNCT. 2024 Jan;: WB ;Mouse. 10.1039/D3FO05236B