

bsm-52176R**[Primary Antibody]**

phospho-MEK1/2 (Ser218 + Ser222) Recombinant Rabbit mAb

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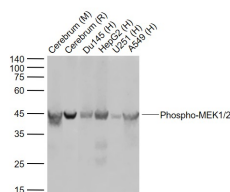
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— DATASHEET —

Host: Rabbit Clonality: Recombinant GeneID: 407835 Target: MEK1/2 (Ser218 + Ser222) Immunogen: KLH conjugated Synthesised phosphopeptide derived from human MEK1 around the phosphorylation site of Ser218/222: ID(p-S)MAN(p-S)FV. Purification: affinity purified by Protein A Concentration: 1mg/ml 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 dual specificity protein kinase that belongs to the MAP kinase kinase family. This kinase is known to play a critical role in mitogen growth factor signal transduction. It phosphorylates and thus activates MAPK1/ERK2 and MAPK2/ERK3. The activation of this kinase itself is dependent on the Ser/Thr phosphorylation by MAP kinase kinase kinases. Mutations in this gene cause cardiofaciocutaneous syndrome (CFC syndrome), a disease characterized by heart defects, mental retardation, and distinctive facial features similar to those found in Noonan syndrome. The inhibition or degradation of this kinase is also found to be involved in the pathogenesis of Yersinia and anthrax. A pseudogene, which is located on chromosome 7, has been identified for this gene. [provided by RefSeq, Jul 2008].	Isotype: IgG CloneNo.: 8A1 SWISS: P36507	Applications: WB (1:500-2000) IHC-P (1:50-200) IHC-F (1:50-200) IF (1:50-200) ICC/IF (1:50-200) Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Chicken, Dog) Predicted MW.: 43 kDa Subcellular Location: Cell membrane ,Cytoplasm
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— VALIDATION IMAGES —



Sample: Lane 1: Mouse Cerebrum tissue lysates
 Lane 2: Rat Cerebrum tissue lysates Lane 3:
 Human Du145 cell lysates Lane 4: Human HepG2
 cell lysates Lane 5: Human U251 cell lysates Lane
 6: Human A549 cell cell lysates Primary: Anti-
 Phospho-MEK1/2 (Ser218 + Ser222)
 (bsm-52176R) at 1/1000 dilution Secondary:
 IRDye800CW Goat Anti-Rabbit IgG at 1/20000
 dilution Predicted band size: 45 kDa Observed
 band size: 45 kDa

— SELECTED CITATIONS —

- **[IF=5.7]** Bo Bao. et al. Excessive Supplement of L-Arginine Induces Myopia via Orchestrating the MEK-ERK-NO Signaling Pathway. J AGR FOOD CHEM. 2024;XXXX(XXX):XXX-XXX WB ;Guinea pig. 39535109
- **[IF=5.157]** Yubing Yu. et al. Angiogenic factor AGGF1 Blocks Neointimal Formation after Vascular Injury via Interaction with Integrin $\alpha 7$ on Vascular Smooth Muscle Cells. J Biol Chem. 2022 Feb;;101759 WB ;Mouse. 10.1016/j.jbc.2022.101759

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

- **[IF=5.3]** Chen Cheng. et al. Nerve growth factor promote osteogenic differentiation of dental pulp stem cells through MEK/ERK signalling pathways. J CELL MOL MED. 2024 Feb;28(4):e18143 WB ;Human. 38333908
- **[IF=3.3]** Tiantian Qi. et al. XLOC_015548 Mitigates Skeletal Muscle Atrophy via the Gadd45g/MEK/ERK Pathway and Redox Regulation. FRONT BIOSCI-LANDMRK. 2025 Apr;30(4):36233 IHC,IF,WB ;Mouse. 40302339
- **[IF=3.2]** Kong Xiang-Yu. et al. Tuina Mitigates Blood–Brain Barrier Disruption in Hypoxic–Ischemic Encephalopathy Rats by Inhibiting PARthanatos in Endothelial Cells. World Journal of Traditional Chinese Medicine. 2025 Feb;11(1):69 WB ;Rat. 10.4103/wjtcn.wjtcn_101_24