## bsm-52176R

# [ Primary Antibody ]

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



www.bioss.com.cn sales@bioss.com.cn techsupport@bioss.com.cn 400-901-9800

– DATASHEET		400-901-9800	
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)	
Clonality: Recombinant	CloneNo.: 8A1	<b>IHC-P</b> (1:100-500)	
GenelD: 407835	SWISS: P36507	IHC-F (1:50-200) IF (1:50-200)	
<b>Target:</b> MEK1/2 (Ser218 + Ser2	222)	ICC/IF (1:50-200)	
Immunogen: KLH conjugated Synthesised phosphopeptide derived from human MEK1 around the phosphorylation site of Ser218/222: ID(p- S)MAN(p-S)FV.		<b>Reactivity:</b> Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Chicken, Dog)	
Purification: affinity purified by Pro	otein A		
Concentration: 1mg/ml		Predicted MW.: <sup>43</sup> kDa	
<b>Storage:</b> 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.		Subcellular Location: Cell membrane ,Cytoplasm	
<b>Background:</b> The protein encoded kinase that belongs to known to play a critic transduction. It phosp and MAPK2/ERK3. The on the Ser/Thr phosp Mutations in this gene syndrome), a disease retardation, and distin Noonan syndrome. Th also found to be invol anthrax. A pseudogen	by this gene is a dual specificity protein o the MAP kinase kinase family. This kinase is al role in mitogen growth factor signal oborylates and thus activates MAPK1/ERK2 e activation of this kinase itself is dependent horylation by MAP kinase kinase kinases. e cause cardiofaciocutaneous syndrome (CFC characterized by heart defects, mental nctive facial features similar to those found in ne inhibition or degradation of this kinase is ved in the pathogenesis of Yersinia and ne, which is located on chromosome 7, has		

been identified for this gene. [provided by RefSeq, Jul 2008].

#### - 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 -

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- [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/wjtcm.wjtcm\_101\_24