

**bs-4124R****[ Primary Antibody ]****MEK5 Rabbit pAb****BioSS**  
**ANTIBODIES**

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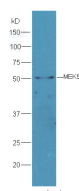
sales@bioss.com.cn

techsupport@bioss.com.cn

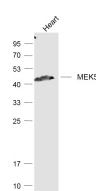
400-901-9800

**— DATASHEET —**

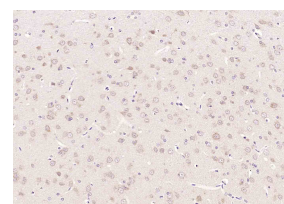
<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> <b>WB</b> (1:500-2000)
<b>Clonality:</b> Polyclonal		<b>IHC-P</b> (1:100-500)
<b>GeneID:</b> 5607	<b>SWISS:</b> Q13163	<b>IHC-F</b> (1:100-500)
<b>Target:</b> MEK5		<b>IF</b> (1:100-500)
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human MEK5: 251-350/448.		<b>Reactivity:</b> Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Chicken, Dog, Horse)
<b>Purification:</b> affinity purified by Protein A		
<b>Concentration:</b> 1mg/ml		<b>Predicted MW.:</b> 50 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.		<b>Subcellular Location:</b> Cytoplasm
<b>Background:</b> MEK5 is a dual specificity protein kinase belonging to the Ser/Thr protein kinase family, (MAP kinase kinase family). It is activated by phosphorylation on Ser/Thr by MAP kinase kinases and interacts specifically with ERK5, and not with another MAP kinase like P38. This kinase specifically interacts with and activates MAPK7/ERK5. This kinase itself can be phosphorylated and activated by MAP3K3/MEKK3, as well as by atypical protein kinase C isoforms (aPKCs). It is not phosphorylated by RAFA, RAFB or RAFC and it may interact with GTPases such as CDC42. The signal cascade mediated by this kinase is involved in growth factor stimulated cell proliferation and muscle cell differentiation. MEK5 is expressed in many adult tissues and is most abundant in heart and skeletal muscle.		

**— VALIDATION IMAGES —**

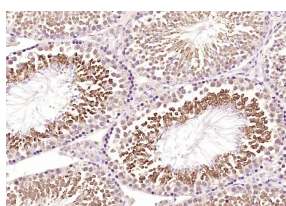
Sample: Heart (Mouse) Lysate at 40 ug Primary:  
Anti-MEK5 (bs-4124R) at 1/300 dilution  
Secondary: HRP conjugated Goat-Anti-rabbit IgG  
(bs-0295G-HRP) at 1/5000 dilution Predicted  
band size: 49 kD Observed band size: 50 kD



Sample: Heart (Mouse) Lysate at 40 ug Primary:  
Anti-MEK5 (bs-4124R) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at  
1/20000 dilution Predicted band size: 49 kD  
Observed band size: 49 kD



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 (MEK5) Polyclonal Antibody, Unconjugated (bs-4124R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded

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

(mouse testis); 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 (MEK5) Polyclonal Antibody, Unconjugated (bs-4124R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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## — SELECTED CITATIONS —

- **[IF=2.93]** Chen, Lin, et al. "MicroRNA-143 Regulates Adipogenesis by Modulating the MAP2K5-ERK5 Signaling." Scientific reports 4 (2014). WB ;="Rat". 24448661
- **[IF=3.17]** Li, Junqin, et al. "Fatty Acid Synthase Mediates the Epithelial-Mesenchymal Transition of Breast Cancer Cells." International Journal of Biological Sciences 10.2 (2014): 171-180. WB ;="Human". 24520215