



Rabbit Anti-MEK5 antibody

SL4124R

Product Name:	MEK5
Chinese Name:	丝裂原活化蛋白激酶激酶5抗体
Alias:	Dual specificity mitogen activated protein kinase kinase 5; Dual specificity mitogen-activated protein kinase kinase 5; EC 2.7.12.2; HsT17454; MAP kinase kinase 5; MAP kinase kinase MEK5b; MAP2K5; MAPK/ERK kinase 5; MAPKK 5; MAPKK5; MEK 5; mitogen-activated protein kinase kinase 5; MKK5; MP2K5_HUMAN; PRKMK5; Protein kinase, mitogen-activated, kinase 5; SAPKK5; SKK5.
文献引用 PubMed :	<p>Specific References(2) SL4124R has been referenced in 2 publications.</p> <p>[IF=2.93]Chen, Lin, et al. "MicroRNA-143 Regulates Adipogenesis by Modulating the MAP2K5-ERK5 Signaling." Scientific reports 4 (2014).WB;Rat. PubMed:24448661</p> <p>[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. PubMed:24520215</p>
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml

immunogen:	KLH conjugated synthetic peptide derived from human MEK5:251-350/448
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	<p>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.</p> <p>Function: Acts as a scaffold for the formation of a ternary MAP3K2/MAP3K3-MAP3K5-MAPK7 signaling complex. Activation of this pathway appear to play a critical role in protecting cells from stress-induced apoptosis, neuronal survival and cardiac development and angiogenesis.</p> <p>Subunit: Interacts with PARD6A, MAP3K3 and MAPK7. Forms a complex with SQSTM1 and PRKCZ or PRKCI. Interacts with Yersinia yopJ.</p> <p>Tissue Specificity: Expressed in many adult tissues. Abundant in heart and skeletal muscle.</p> <p>Post-translational modifications: Activated by phosphorylation on Ser/Thr by MAP kinase kinase kinases. Yersinia yopJ may acetylate Ser/Thr residues, preventing phosphorylation and activation, thus blocking the MAPK signaling pathway.</p> <p>Similarity: Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily. Contains 1 OPR domain. Contains 1 protein kinase domain.</p> <p>SWISS: Q99683</p>

Gene ID:
5607

Database links:

[Entrez Gene: 5607](#)Human

[Entrez Gene: 23938](#)Mouse

[Entrez Gene: 29568](#)Rat

[Olim: 602520](#)Human

[SwissProt: Q13163](#)Human

[SwissProt: Q9WVS7](#)Mouse

[SwissProt: Q62862](#)Rat

[Unigene: 114198](#)Human

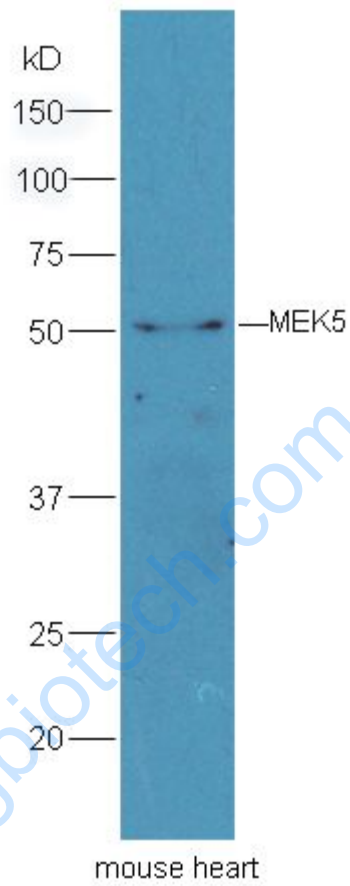
[Unigene: 325746](#)Mouse

[Unigene: 11054](#)Rat

Important Note:

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

Picture:



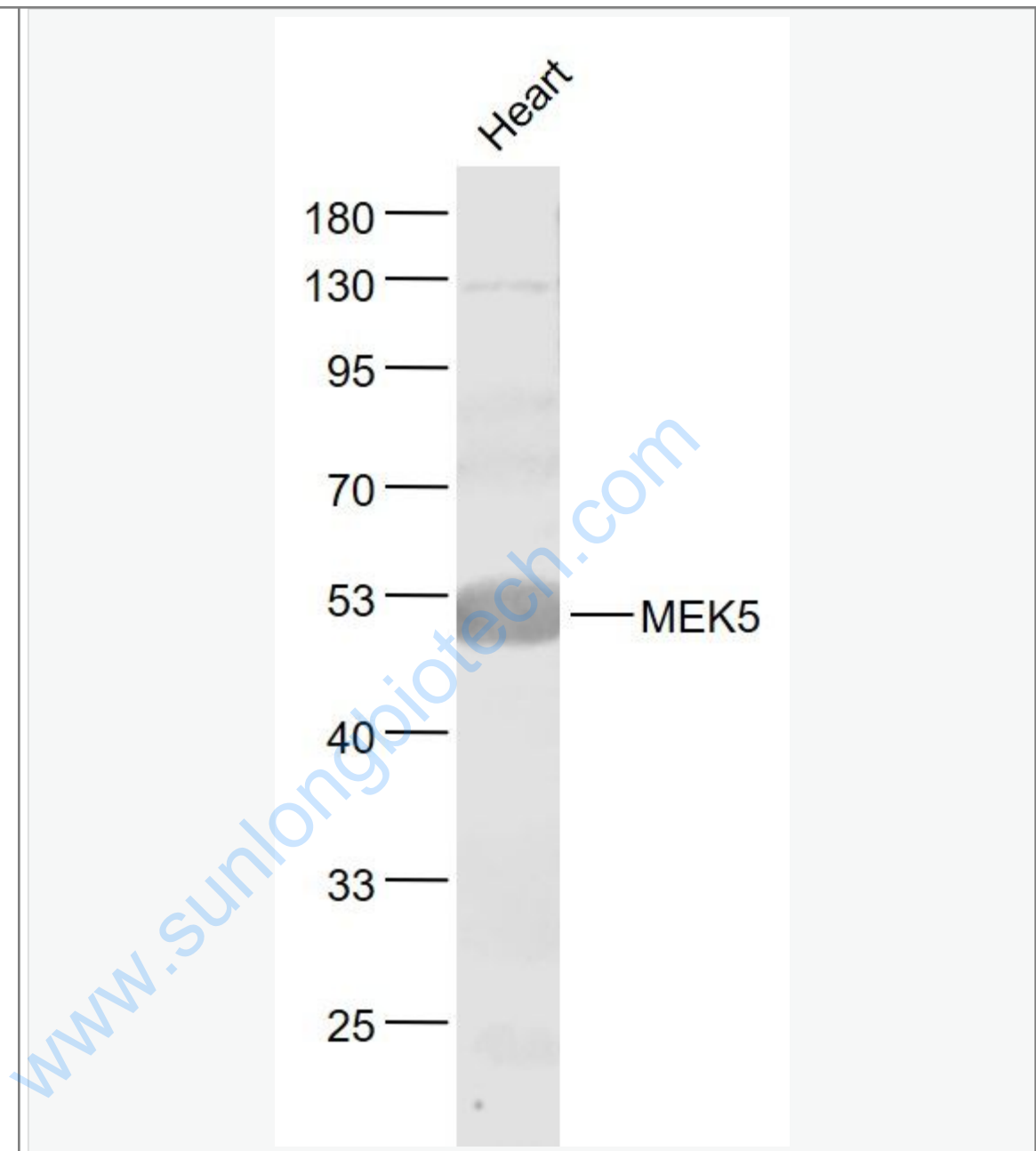
Sample: Heart (Mouse) Lysate at 40 ug

Primary: Anti-MEK5 (SL4124R) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL4124R) at 1/5000 dilution

Predicted band size: 49 kD

Observed band size: 50 kD



Sample:

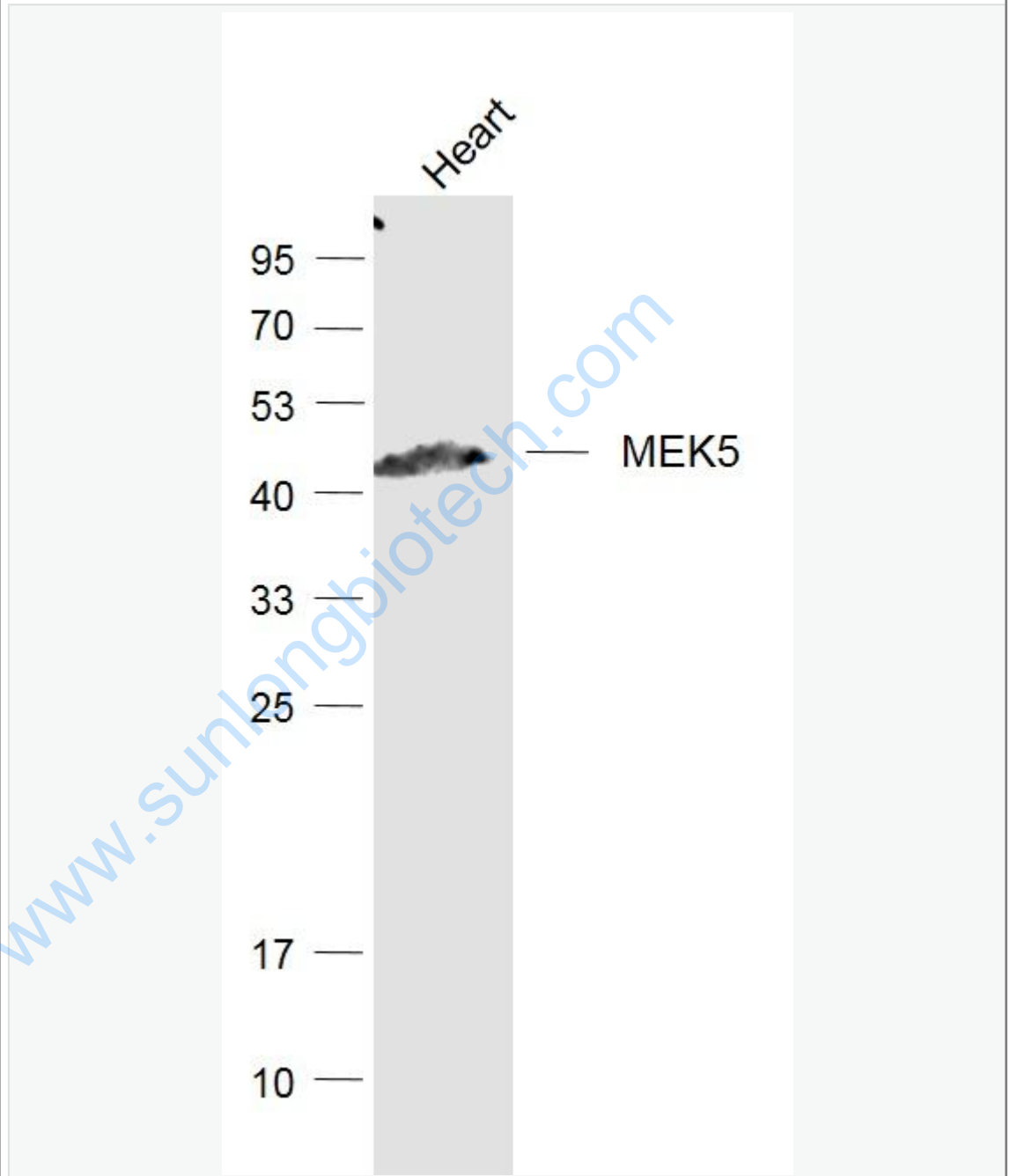
Heart (Mouse) Lysate at 40 ug

Primary: Anti- MEK5 (SL4124R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50 kD

Observed band size: 50 kD



Sample:

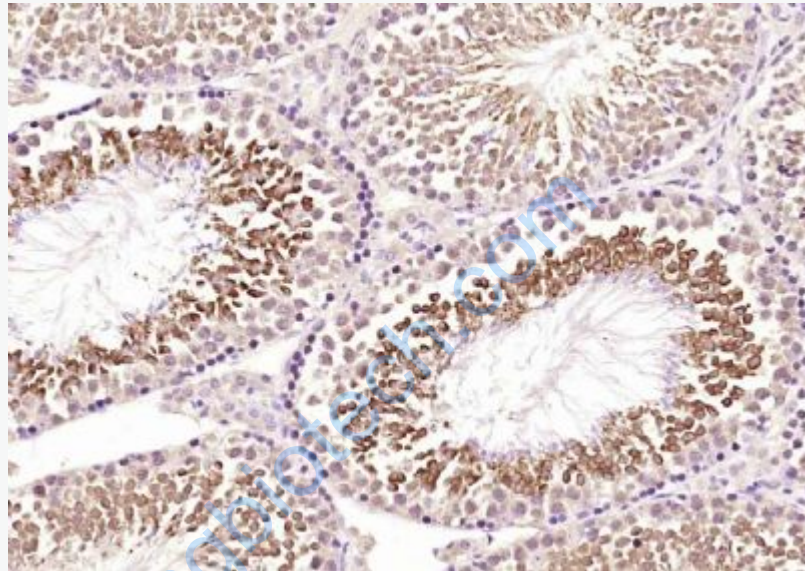
Heart (Mouse) Lysate at 40 ug

Primary: Anti-MEK5 (SL4124R) at 1/1000 dilution

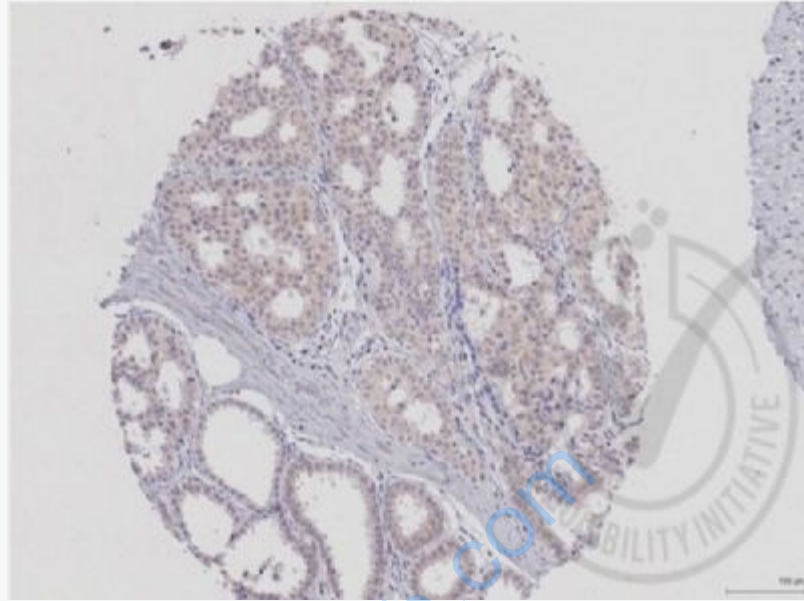
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 49 kD

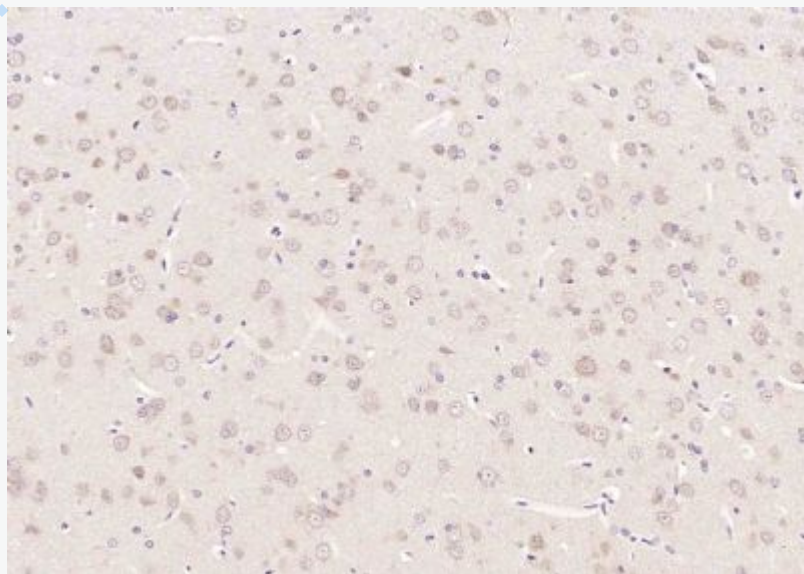
Observed band size: 49 kD



Paraformaldehyde-fixed, paraffin embedded (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 (SL4124R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Independently Validated Antibody, image provided by Science Direct, badge number 029644: Formalin-fixed and paraffin embedded human breast myoepithelial and glandular tissue labeled with Anti-MEK5 Polyclonal Antibody, Unconjugated (SL4124R) at 1:250 followed by conjugation to the secondary antibody 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 (MEK5) Polyclonal Antibody, Unconjugated (SL4124R) 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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