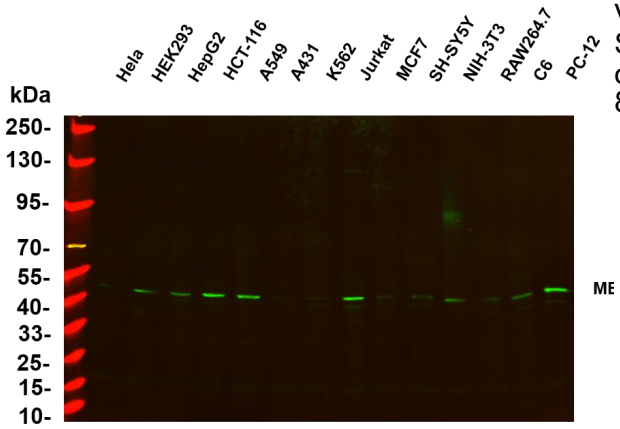
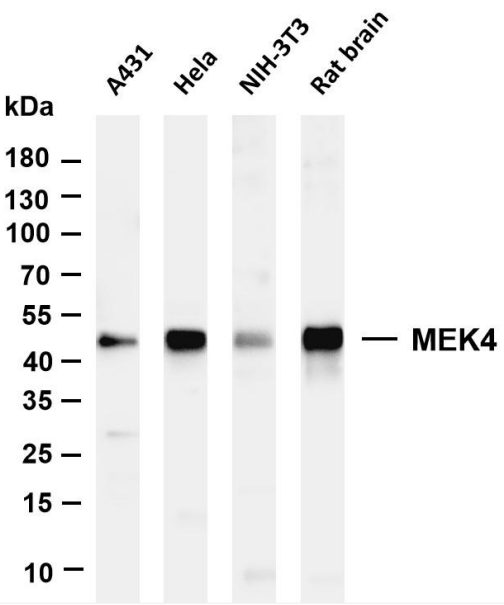
MEK4 Rabbit mAb

Catalog No	YP-rAb-17749
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IF,ELISA
Gene Name	MAP2K4 JNKK1 MEK4 MKK4 PRKMK4 SEK1 SERK1 SKK1
Protein Name	Dual specificity mitogen-activated protein kinase kinase 4
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000;
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	Dual specificity mitogen-activated protein kinase kinase 4 ; MAP kinase kinase 4 ; MAPKK 4 ; JNK-activating kinase 1 ; MAPK/ERK kinase 4 ; MEK 4 ; SAPK/ERK kinase 1 ; SEK1 ; Stress-activated protein kinase kinase 1 ; SAPK kinase 1 ; SAPKK-1 ; SAPKK1 ; c-Jun N-terminal kinase kinase 1 ; JNKK ;
Observed Band	44kD
Calculated Molecular Weight	44kD
Cell Pathway	Cytoplasm, Nucleus
Tissue Specificity	Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues.
Function	Catalytic activity:ATP + a protein = ADP + a phosphoprotein.,Function:Dual specificity kinase that activates the JUN kinases MAPK8 (JNK1) and MAPK9 (JNK2) as well as MAPK14 (p38) but not MAPK1 (ERK2) or MAPK3 (ERK1).,PTM:Activated by phosphorylation on Ser/Thr by MAP kinase kinase kinases.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. MAP kinase kinase subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Interacts with SPAG9.,tissue specificity:Abundant expression is seen in the skeletal muscle. It is also widely expressed in other tissues.,

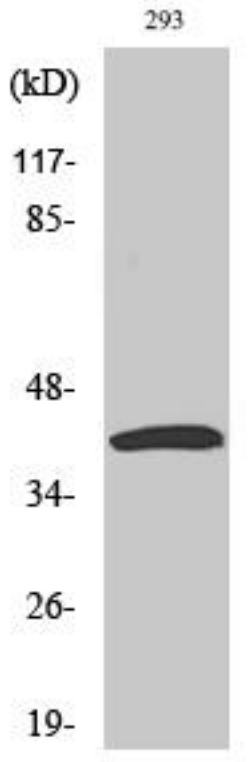
Background	This gene encodes a member of the mitogen-activated protein kinase (MAPK) family. Members of this family act as an integration point for multiple biochemical signals and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation, and development. They form a three-tiered signaling module composed of MAPKKKs, MAPKKs, and MAPKs. This protein is phosphorylated at serine and threonine residues by MAPKKKs and subsequently phosphorylates downstream MAPK targets at threonine and tyrosine residues. A similar protein in mouse has been reported to play a role in liver organogenesis. A pseudogene of this gene is located on the long arm of chromosome X. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



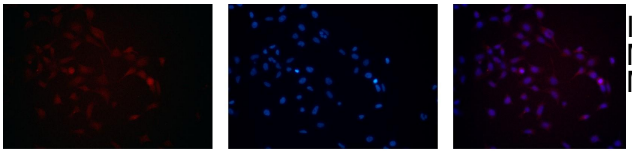
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4～C, over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-MEK4 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: A431 Lane 2: Hela Lane 3: NIH-3T3 Lane 4: Rat brain Predicted band size: 44kDa Observed band size: 44kDa



Western Blot analysis of various cells using MEK-4 Antibody diluted at 1:1000



Immunofluorescence analysis of HEK293. Picture A: MEK4 antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B