



MKP-4 Rabbit mAb

Catalog No	YP-rAb-17990
Isotype	IgG
Reactivity	Human
Applications	WB,IHC,IF,ELISA
Gene Name	DUSP9
Protein Name	Dual specificity protein phosphatase 9
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	DUSP9 ; MKP4 ; Dual specificity protein phosphatase 9 ; Mitogen-activated protein kinase phosphatase 4 ; MAP kinase phosphatase 4 ; MKP-4
Observed Band	42kD
Calculated Molecular Weight	42kD
Cell Pathway	Cytoplasm.
Tissue Specificity	Kidney,Liver,Lung,Placenta,
Function	Catalytic activity:A phosphoprotein + H(2)O = a protein + phosphate.,Catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,Function:Inactivates MAP kinases. Has a specificity for the ERK family.,similarity:Belongs to the protein-tyrosine phosphatase family. Non-receptor class dual specificity subfamily.,similarity:Contains 1 rhodanese domain.,similarity:Contains 1 tyrosine-protein phosphatase domain.,
Background	The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which is associated with cellular proliferation and differentiation. Different members of the family of

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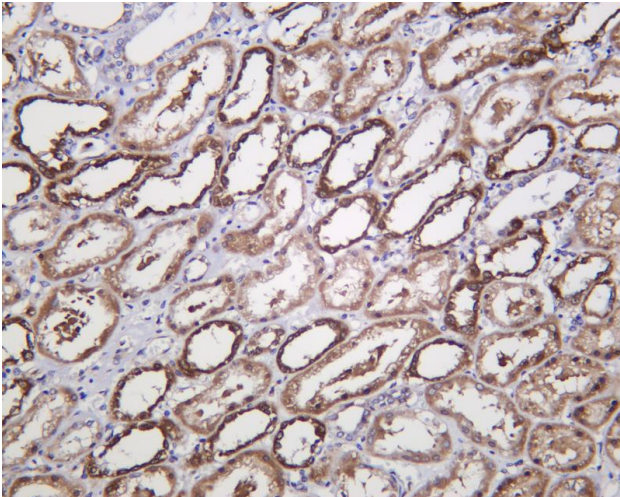
dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product shows selectivity for members of the ERK family of MAP kinases and is localized to the cytoplasm and nucleus. Aberrant expression of this gene is associated with type 2 diabetes and cancer progr

matters needing attention

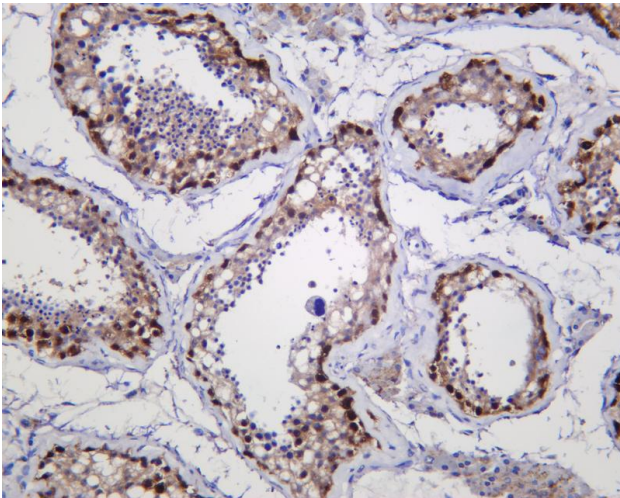
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Human kidney was stained with anti-MKP-4 Rabbit antibody



Human testis was stained with anti-MKP-4 Rabbit antibody

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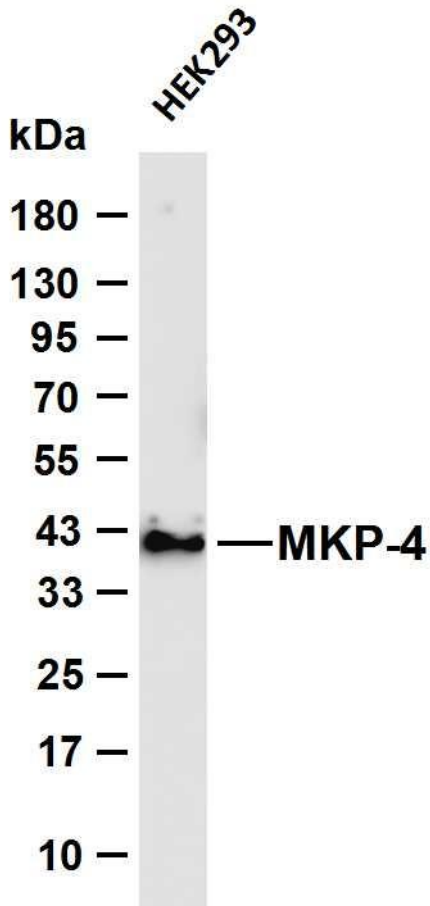
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Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-MKP-4 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HEK293 Predicted band size: 42kDa Observed band size: 42kDa

