

MKP-4 Polyclonal Antibody

Description

Product type	Primary Antibody
Code	BT-AP05445
Host	Rabbit
Isotype	IgG
Size	20ul, 50ul, 100ul
Immunogen	The antiserum was produced against synthesized peptide derived from human DUSP9. AA range:151-200
Mol wt	41868
Species reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Recommended application	WB, IHC-p, IF, ELISA
Concentration	1 mg/ml
Full name	MKP-4 Antibody
Synonyms	DUSP9; MKP4; Dual specificity protein phosphatase 9; Mitogen-activated protein kinase phosphatase 4; MAP kinase phosphatase 4; MKP-4

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

Background

The dual specificity phosphatase 9 encoded by DUSP9 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 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 progression in several cell types. Alternate splicing results in multiple transcript variants.

Recommended Dilution

WB: 1: 500 - 1: 2000

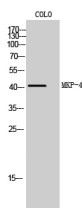
IHC: 1: 100 - 1: 300

IF: 1: 200 - 1: 1000

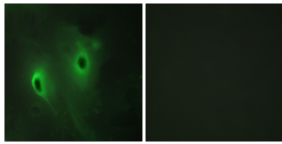
ELISA: 1: 20000

Not yet tested in other applications.

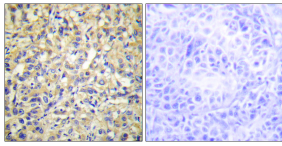
Images



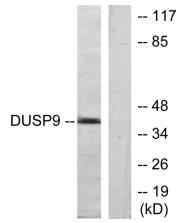
Western Blot analysis of COLO cells using MKP-4 Polyclonal Antibody diluted at 1:1000



Immunofluorescence analysis of HeLa cells, using DUSP9 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human liver carcinoma tissue, using DUSP9 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HeLa cells, using DUSP9 Antibody. The lane on the right is blocked with the synthesized peptide.

Storage

-20°C for one year

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