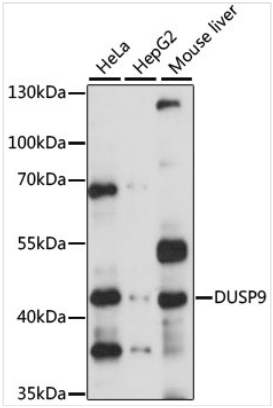
DUSP9 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DUSP9, Polyclonal Antibody
Full Product Name	DUSP9 Polyclonal Antibody
Product Gene Name	anti-DUSP9 antibody
Product Synonym Names	MKP4; MKP-4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity Purification
Concentration	1mg/ml (lot specific)
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Molecular Weight	384
OMIM	300134
3D Structure	ModBase 3D Structure for Q99956
Species	Human
Immunogen	Recombinant protein of human DUSP9
Calculated Molecular Weight	42kDa
Product Categories/Family for anti-DUSP9 antibody	Polyclonal
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-DUSP9 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-DUSP9 antibody	WB: 1:200-1:2000 IHC: 1:50-1:200 IF: 1:50-1:200
Related Product Information for anti-DUSP9 antibody	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 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, is expressed only in placenta, kidney, and fetal liver, and is localized to the cytoplasm and nucleus.
Other Notes	Small volumes of anti-DUSP9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for DUSP9 purchase	MBS9125896 is an antibody targeting DUSP9. Also known as DUSP9 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-DUSP9 antibody
Western blot analysis of extracts of various cell lines, using DUSP9 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 5s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DUSP9. It may not necessarily be applicable to this product.

NCBI GI #	3913541
NCBI GeneID	1852
NCBI Accession #	Q99956.1
UniProt Primary Accession #	Q99956
UniProt Secondary Accession #	D3DWU5
UniProt Related Accession #	Q99956
NCBI Official Full Name	Dual specificity protein phosphatase 9
NCBI Official Synonym Full Names	dual specificity phosphatase 9
NCBI Official Symbol	DUSP9
NCBI Official Synonym Symbols	MKP4; MKP-4
UniProt Protein Name	Dual specificity protein phosphatase 9
UniProt Synonym Protein Names	Mitogen-activated protein kinase phosphatase 4; MAP kinase phosphatase 4; MKP-4
Protein Family	Dual specificity protein phosphatase
UniProt Gene Name	DUSP9
UniProt Synonym Gene Names	MKP4; MAP kinase phosphatase 4; MKP-4
UniProt Entry Name	DUS9_HUMAN
NCBI Protein Information	dual specificity protein phosphatase 9; map kinase phosphatase 4; serine/threonine specific protein phosphatase; mitogen-activated protein kinase phosphatase 4

UniProt Comments for DUSP9	DUSP9: 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 (ERK, JNK, p38). Shows selectivity for members of the ERK family, is expressed at high levels in placenta, kidney, and fetal liver, and is localized to the cytoplasm and nucleus. Protein type: Protein phosphatase, dual-specificity; Motility/polarity/chemotaxis; EC 3.1.3.48; EC 3.1.3.16 Chromosomal Location of Human Ortholog: Xq28 Cellular Component: cytoplasm; nucleus Molecular Function: protein binding; protein tyrosine/serine/threonine phosphatase activity; protein tyrosine phosphatase activity; MAP kinase tyrosine/serine/threonine phosphatase activity; phosphoprotein phosphatase activity Biological Process: JNK cascade; protein amino acid dephosphorylation; inactivation of MAPK activity
Research Articles on DUSP9	**1.** DUSP9 protein levels were markedly suppressed in severe pre-eclampsia, but not in severe IUGR. This suppression might be attributable to the prolonged hypoxic conditions found in pre-eclampsia.
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