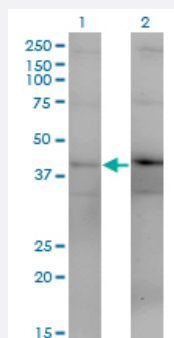


# DUSP4 monoclonal antibody (M08), clone 1D12

Catalog # H00001846-M08

Size 100 ug

## Applications

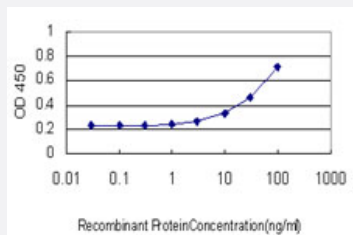


### Western Blot (Transfected lysate)

Western Blot analysis of DUSP4 expression in transfected 293T cell line by DUSP4 monoclonal antibody (M08), clone 1D12.

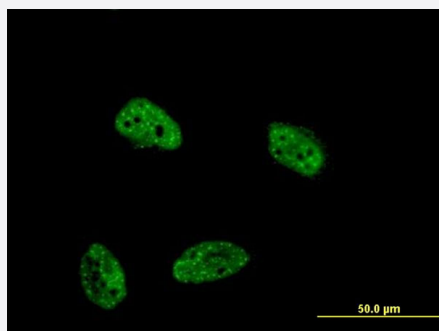
Lane 1: DUSP4 transfected lysate (43 KDa).

Lane 2: Non-transfected lysate.



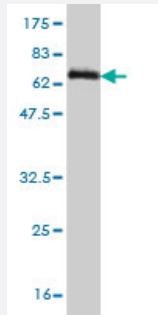
### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged DUSP4 is approximately 3ng/ml as a capture antibody.



### Immunofluorescence

Immunofluorescence of monoclonal antibody to DUSP4 on HeLa cell .  
[antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (69.08 KDa) .

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against a full length recombinant DUSP4.
<b>Immunogen</b>	DUSP4 (AAH02671, 1 a.a. ~ 394 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Sequence</b>	MVTMEELREMDCSVLKRLMNRDENGSGAGGSGSHGTLGLPSGGKCLLLDCRPFLAHSAGYILG SVNVRCNTVRRRAKGSVSLEQILPAEEEVRRARLRSGLYSAVYDERSPRAESLREDSTVSLVVQ ALRRNAERTDICLLKGGYERFSSEYPEFCSTKALAAIPPPVPPSATEPLDLGCSSCGTPLHDQG GPVEILPFLYLGSAYHAARRDMLDALGITALLNVSSDCPNHFEGHYQYKCIPVEDNHKADISSWFM EAIEYDAVKDCRGRVLVHCQAGISRSATICLAYLMMKKRVRLEEAFFVKQRRSIISPNSFMGQL LQFESQVLATSCAAEAASPSGPLRERGKTPATPTSQFVFSFPVSVGVHSAPSSLPYLHSPITTSP SC
<b>Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Interspecies Antigen Sequence</b>	Mouse (95); Rat (96)
<b>Isotype</b>	IgG3 Kappa
<b>Quality Control Testing</b>	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (69.08 KDa) .
<b>Storage Buffer</b>	In 1x PBS, pH 7.4
<b>Storage Instruction</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Transfected lysate)

Western Blot analysis of DUSP4 expression in transfected 293T cell line by DUSP4 monoclonal antibody (M08), clone 1D12.

Lane 1: DUSP4 transfected lysate(43 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged DUSP4 is approximately 3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to DUSP4 on HeLa cell . [antibody concentration 10 ug/ml]

## Gene Info — DUSP4

Entrez GeneID	<a href="#">1846</a>
GeneBank Accession#	<a href="#">BC002671</a>
Protein Accession#	<a href="#">AAH02671</a>
Gene Name	DUSP4
Gene Alias	HVH2, MKP-2, MKP2, TYP
Gene Description	dual specificity phosphatase 4
Omim ID	<a href="#">602747</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

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 are 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 inactivates ERK1, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus. Two alternatively spliced transcript variants, encoding distinct isoforms, have been observed for this gene. In addition, multiple polyadenylation sites have been reported. [provided by RefSeq]

**Other Designations**

MAP kinase phosphatase 2[VH1 homologous phosphatase 2]serine/threonine specific protein phosphatase

**Pathway**

- [MAPK signaling pathway](#)