

For Research Use Only

# MKP-2 Monoclonal antibody

Catalog Number: 66349-1-Ig **6 Publications**



## Basic Information

<b>Catalog Number:</b> 66349-1-Ig	<b>GenBank Accession Number:</b> BC014565	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1700 µg/ml	<b>GeneID (NCBI):</b> 1846	<b>CloneNo.:</b> 1G1C12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q13115	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:1000-1:4000 IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> dual specificity phosphatase 4	
<b>Immunogen Catalog Number:</b> AG1206	<b>Calculated MW:</b> 43 kDa	
	<b>Observed MW:</b> 43 kDa, 33 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> CoIP, IF, IHC, WB	<b>WB :</b> pig brain tissue, RAW 264.7 cells, HepG2 cells, PC-12 cells, NIH/3T3 cells, mouse brain tissue, rat brain tissue
<b>Species Specificity:</b> human, pig, rat, mouse	<b>IHC :</b> human breast cancer tissue, human colon cancer tissue
<b>Cited Species:</b> human, rat, mouse	<b>IF :</b> HepG2 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

DUSP4, also named as MKP-2, is a member of the mitogen-activated protein (MAP) kinase phosphatase family which has been suggested to play an important role in the feedback control of MAP kinase-mediated gene expression. DUSP4 preferentially inactivates ERK1, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus. DUSP4 encodes two distinct isoforms: MKP-2-L (43 kDa) and MKP-2-S (33 kDa).

## Notable Publications

Author	Pubmed ID	Journal	Application
Ambika Chandrasekhar	32959171	Mol Neurobiol	IHC
Xiaoman Zhu	36096985	Cell Death Dis	WB
Xianqing Chen	31258782	J Cancer	WB,IHC

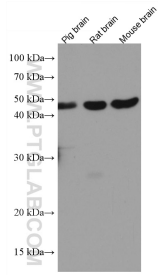
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

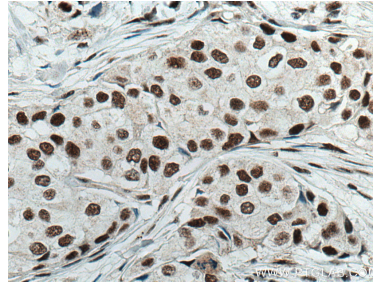
For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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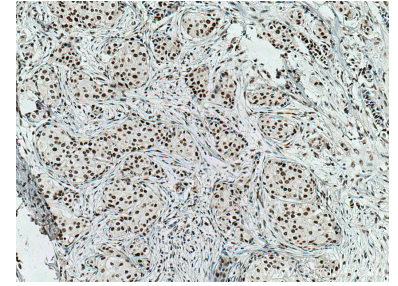
## Selected Validation Data



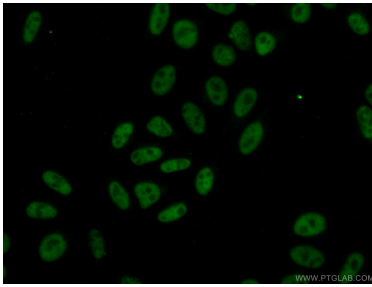
Various lysates were subjected to SDS PAGE followed by western blot with 66349-1-Ig (MKP-2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66349-1-Ig (MKP-2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66349-1-Ig (MKP-2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA ) fixed HepG2 cells using 66349-1-Ig(MKP-2 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).