

## MKP-3 Polyclonal Antibody

### Description

|                                |   |
|--------------------------------|---|
| <b>Product type</b>            | Primary Antibody  |
| <b>Code</b>                    | BT-AP05444  |
| <b>Host</b>                    | Rabbit  |
| <b>Isotype</b>                 | IgG   |
| <b>Size</b>                    | 20ul, 50ul, 100ul   |
| <b>Immunogen</b>               | The antiserum was produced against synthesized peptide derived from human DUSP6. AA range:61-110  |
| <b>Mol wt</b>                  | 42320   |
| <b>Species reactivity</b>      | Human, Mouse, Rat   |
| <b>Clonality</b>               | Polyclonal  |
| <b>Recommended application</b> | WB, IHC-p, IF, ELISA  |
| <b>Concentration</b>           | 1 mg/ml   |
| <b>Full name</b>               | MKP-3 Antibody  |
| <b>Synonyms</b>                | DUSP6; MKP3; PYST1; Dual specificity protein phosphatase 6; Dual specificity protein phosphatase PYST1; Mitogen-activated protein kinase phosphatase 3; MAP kinase phosphatase 3; MKP-3 |

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

### Background

The dual specificity phosphatase 6 encoded by DUSP6 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 ERK2, is expressed in a variety of tissues with the highest levels in heart and pancreas, and unlike most other members of this family, is localized in the cytoplasm. Mutations in this gene have been associated with congenital hypogonadotropic hypogonadism. Alternatively spliced transcript variants have been found for this gene.

### Recommended Dilution

WB: 1: 500 - 1: 2000

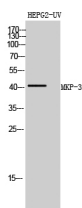
IHC: 1: 100 - 1: 300

IF: 1: 200 - 1: 1000

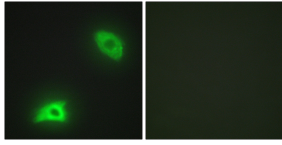
ELISA: 1: 20000

Not yet tested in other applications.

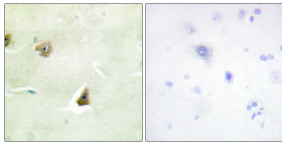
### Images



Western Blot analysis of HEPG2-UV cells using MKP-3 Polyclonal Antibody diluted at 1:500



Immunofluorescence analysis of HeLa cells, using DUSP6 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using DUSP6 Antibody. The picture on the right is blocked with the synthesized peptide.

### Storage

-20°C for one year

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