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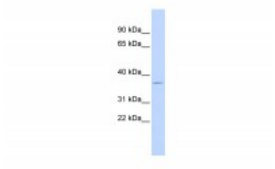
# DUSP12 Antibody

CATALOG NUMBER: 25-098



Antibody used in WB on Human Heart at 0.2-1 ug/ml.

## Specifications

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| **SPECIES REACTIVITY:** | Human, Mouse, Rat |
| **TESTED APPLICATIONS:** | ELISA, WB |
| **APPLICATIONS:** | DUSP12 antibody can be used for detection of DUSP12 by ELISA at 1:1562500. DUSP12 antibody can be used for detection of DUSP12 by western blot at 1 ug/mL, and HRP conjugated secondary antibody should be diluted 1:50,000 - 100,000. |
| **USER NOTE:** | Optimal dilutions for each application to be determined by the researcher. |
| **POSITIVE CONTROL:** | 1) Cat. No. XBL-10407 - Fetal Heart Tissue Lysate |
| **PREDICTED MOLECULAR WEIGHT:** | 38 kDa |
| **IMMUNOGEN:** | Antibody produced in rabbits immunized with a synthetic peptide corresponding a region of human DUSP12. |
| **HOST SPECIES:** | Rabbit |

## Properties

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| **PURIFICATION:** | Antibody is purified by peptide affinity chromatography method. |
| **PHYSICAL STATE:** | Lyophilized |
| **BUFFER:** | Antibody is lyophilized in PBS buffer with 2% sucrose. Add 50 uL of distilled water. Final antibody concentration is 1 mg/mL. |
| **CONCENTRATION:** | 1 mg/ml |
| **STORAGE CONDITIONS:** | For short periods of storage (days) store at 4˚C. For longer periods of storage, store DUSP12 antibody at -20˚C. As with any antibody avoid repeat freeze-thaw cycles. |
| **CLONALITY:** | Polyclonal |
| **CONJUGATE:** | Unconjugated |

## Additional Info

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| **ALTERNATE NAMES:** | DUSP12, DUSP1, YVH1 |
| **ACCESSION NO.:** | NP_009171 |
| **PROTEIN GI NO.:** | 6005956 |

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|---|---|
| **OFFICIAL SYMBOL:** | DUSP12 |
| **GENE ID:** | 11266 |

## Background

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| **BACKGROUND:** | DUSP12 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. DUSP12 is the human ortholog of the Saccharomyces cerevisiae YVH1 protein tyrosine phosphatase. It is localized predominantly in the nucleus, and is novel in that it contains, and is regulated by a zinc finger domain.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 is the human ortholog of the Saccharomyces cerevisiae YVH1 protein tyrosine phosphatase. It is localized predominantly in the nucleus, and is novel in that it contains, and is regulated by a zinc finger domain. |
| **REFERENCES:** | 1) Hasstedt, S.J., Ann. Hum. Genet. 72 (PT 2), 163-169 (2008). |

**FOR RESEARCH USE ONLY**

December 12, 2016