

Datasheet for ABIN7599332
anti-DUSP6 antibody (AA 1-381)



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Overview

Quantity:	100 µg
Target:	DUSP6
Binding Specificity:	AA 1-381
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DUSP6 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-DUSP6 Antibody Picoband®
Immunogen:	E.coli-derived human DUSP6 recombinant protein (Position: M1-T381).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-DUSP6 Antibody Picoband® (ABIN7599332). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	DUSP6
Alternative Name:	DUSP6 (DUSP6 Products)
Background:	Synonyms: Sentrin-specific protease 1, Sentrin/SUMO-specific protease SENP1, SENP1 Tissue Specificity: Highly expressed in testis. Expressed at lower levels in thymus, pancreas, spleen, liver, ovary and small intestine. Background: Dual specificity phosphatase 6 (DUSP6) is an enzyme that in humans is encoded by the DUSP6 gene. 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 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.
Molecular Weight:	50 kDa
Gene ID:	1848
UniProt:	Q16828
Pathways:	Neurotrophin Signaling Pathway , Activation of Innate immune Response , Toll-Like Receptors Cascades

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Furukawa, T., Yatsuoka, T., Youssef, E. M., Abe, T., Yokoyama, T., Fukushima, S., Soeda, E., Hoshi, M., Hayashi, Y., Sunamura, M., Kobari, M., Horii, A. Genomic analysis of DUSP6, a dual specificity MAP kinase phosphatase, in pancreatic cancer. Cytogenet. Cell Genet. 82: 156-159,
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Application Details

1998. 2. Groom, L. A., Sneddon, A. A., Alessi, D. R., Dowd, S., Keyse, S. M. Differential regulation of the MAP, SAP and RK/p38 kinases by Pyst1, a novel cytosolic dual-specificity phosphatase. EMBO J. 15: 3621-3632, 1996. 3. Maillet, M., Purcell, N. H., Sargent, M. A., York, A. J., Bueno, O. F., Molkentin, J. D. DUSP6 (MKP3) null mice show enhanced ERK1/2 phosphorylation at baseline and increased myocyte proliferation in the heart affecting disease susceptibility. J. Biol. Chem. 283: 31246-31255, 2008.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.