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Datasheet

DUSP6 monoclonal antibody (M01), clone 3G2

Catalog Number: H00001848-M01

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a full length recombinant DUSP6.

Clone Name: 3G2

Immunogen: DUSP6 (AAH03143, 1 a.a. ~ 381 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:
MIDTLRPVPFASEMAISKTVAWLNEQLELGNERLLLMD
CRPQELYESSHIESAINVAIPGIMLRRLQKGNLPVRALF
TRGEDRDRFTRRCGTDTVVLYDESSSDWNENTGGES
LLGLLLKKLKDEGCRAFYLEGGFSKFQAEFSLHCETNL
DGSCSSSSPPLPVLGLGGLRISSDSSSDIESDLDRDPN
SATDSDGSPLSNSQPSFPVEILPFLYLGCAKDSTNLDV
LEEFGIKYILNVTPNLPNLFENAGEFKYKQIPISDHWSQ
NLSQFFPEAISFIDEARGKNCGVLVHCLAGISRSVTVTV
AYLMQKLNLSMNDAYDIVKMKKSNISPNFNFMGQLLD
FERTLGLSSPCDNRVPAQQLYFTTPSNQNVYQVDSLQ
ST

Host: Mouse

Reactivity: Human

Applications: ELISA, IF, IHC-P, RNAi-Ab, S-ELISA, WB-Re, WB-Tr
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Isotype: IgG1 Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 1848

Gene Symbol: DUSP6

Gene Alias: MKP3, PYST1

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 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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

References:

1. TSH Signaling Overcomes B-RafV600E–Induced Senescence in Papillary Thyroid Carcinogenesis through Regulation of DUSP6. Kim YH, Choi YW, Han JH, Lee J, Soh EY, Park SH, Kim JH, Park TJ. Neoplasia. 2014 Dec;16(12):1107-20.
2. Dual specificity phosphatase 6 as a predictor of invasiveness in papillary thyroid cancer. Lee JU, Huang S, Lee MH, Lee SE, Ryu MJ, Kim SJ, Kim YK, Kim SY, Joung KH, Kim JM, Shong M, Jo YS. Eur J Endocrinol. 2012 Jul;167(1):93-101. Epub 2012 Apr 25.
3. Down-Regulation of DUSP6 Expression in Lung Cancer: Its Mechanism and Potential Role in Carcinogenesis. Okudela K, Yazawa T, Woo T, Sakaeda M, Ishii J, Mitsui H, Shimoyamada H, Sato H, Tajiri M, Ogawa N, Masuda M, Takahashi T, Sugimura H, Kitamura H. Am J Pathol. 2009 Aug;175(2):867-81. Epub 2009 Jul 16.