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Datasheet

SENP6 monoclonal antibody (M01), clone 4B7

Catalog Number: H00026054-M01

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a partial recombinant SENP6.

Clone Name: 4B7

Immunogen: SENP6 (NP_056386, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:
MAAGKSGGSAGEITFLEALARSESKRDGGFKNNWSF
DHEEESEGDTDKDGTNLLSVDEDEDSETSKGKKLNRR
SEIVANSSGEFILKTYVRRNKSESFKTLKGNPIGLNM

Host: Mouse

Reactivity: Human

Applications: ELISA, IHC-P, S-ELISA, WB-Ce, WB-Re (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: IgG2a 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: 26054

Gene Symbol: SENP6

Gene Alias: FLJ11355, FLJ11887, KIAA0389, KIAA0797, SSP1, SUSP1

Gene Summary: Ubiquitin-like molecules (UBLs), such as SUMO1 (UBL1; MIM 601912), are structurally related to ubiquitin (MIM 191339) and can be ligated to target proteins in a similar manner as ubiquitin. However, covalent attachment of UBLs does not result in degradation of the modified proteins. SUMO1 modification is implicated in the targeting of RANGAP1 (MIM 602362) to the nuclear pore complex, as well as in stabilization of I-kappa-B-alpha (NFKBIA; MIM 164008) from degradation by the 26S proteasome. Like ubiquitin, UBLs are synthesized as precursor proteins, with 1 or more amino acids following the C-terminal glycine-glycine residues of the mature UBL protein. Thus, the tail sequences of the UBL precursors need to be removed by UBL-specific proteases, such as SENP6, prior to their conjugation to target proteins (Kim et al., 2000 [PubMed 10799485]). SENPs also display isopeptidase activity for deconjugation of SUMO-conjugated substrates (Lima and Reverter, 2008 [PubMed 18799455]).[supplied by OMIM]

References:

1. Negative Regulation of TLR Inflammatory Signaling by the SUMO-deconjugating Enzyme SENP6. Liu X, Chen W, Wang Q, Li L, Wang C PLoS Pathog. 2013 Jun;9(6):e1003480. doi: 10.1371/journal.ppat.1003480. Epub 2013 Jun 27.
2. Regulation of DNA repair through deSUMOylation and SUMOylation of replication protein A complex. Dou H, Huang C, Singh M, Carpenter PB, Yeh ET. Mol Cell. 2010 Aug 13;39(3):333-45.
3. SENP3-mediated de-conjugation of SUMO2/3 from promyelocytic leukemia is correlated with accelerated cell proliferation under mild oxidative stress. Han Y, Huang C, Sun X, Xiang B, Wang M, Yeh ET, Chen Y, Li H, Shi G, Cang H, Sun Y, Wang J, Wang W, Gao F, Yi J. J Biol Chem. 2010 Apr 23;285(17):12906-15. Epub 2010 Feb 24.