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YB80838Ra01

Otubain 1 (OTUB1)

Organism: Rattus norvegicus (Rat)

Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

1th Edition (Revised in February, 2012)

[DESCRIPTION]

Protein Names: Otubain 1

Gene Names: OTUB1

Size: 100µg

Source: Recombinant

Expression Host: *E.coli*

Function: Hydrolase that can remove conjugated ubiquitin from proteins in vitro and may therefore play an important regulatory role at the level of protein turnover by preventing degradation. Regulator of T-cell anergy. Acts via its interaction with RNF128/GRAIL. Surprisingly, it regulates RNF128-mediated ubiquitination. Mediates deubiquitination of 'Lys-48'-linked polyubiquitin chains. Also capable of removing NEDD8 from NEDD8 conjugates, but with a much lower preference compared to 'Lys-48'-linked ubiquitin.

Subcellular Location: Cytoplasm

[PROPERTIES]

Residues: Met1~Lys271 (Accession # B2RYG6), with a N-terminal His-tag.

Grade & Purity: >97%, 32.51 kDa as determined by SDS-PAGE reducing conditions.

Form & Buffer: Supplied as lyophilized form in PBS, pH 7.4.

Endotoxin Level: <1.0 EU per 1µg(determined by the LAL method).

Applications: SDS-PAGE; WB; ELISA;IP.

(May be suitable for use in other assays to be determined by the end user.)

Predicted Molecular Mass: 32.51 kDa

[PREPARATION]

Reconstitute in PBS.



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[STORAGE AND STABILITY]

Storage: Store at 4°C for short term storage (1-2 weeks). Aliquot and store at -20°C or -80°C for long term storage. Avoid repeated freeze/thaw cycles.

Valid period: 12 months stored at -80°C.

[BACKGROUND]

MGHHHHHSGS-MAAEEPQQK QEPLGSDSEG VNCLAYDEAI MAQQDRIQQE IAVQNPLVSE RLELSVLYKE
YAEDDNIYQQ KIKDLHKKYS YIRKTRPDGN CFYRAFGFSH LEALLDDSK LQRFKAVSAK SKEDLVSQGF
TEFTIEDFHN TFMDLIEQVE KQTSVADLLA SFNDQSTSDY LVVYLRLITS GYLQRESKFF EHFIEGGRTV
KEFCQQEVEP MCKESDHIHI IALAQALSVS IQVEYMDRGE GGTTNPHIFP EGSEPKVYLL YRPGHYDILY K

[REFERENCES]

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2. Strausberg RL, et al. (2002) Proc Natl Acad Sci U S A.99(26):16899-16903.
3. The MGC Project Team. (2004) Genome Res. 14:2121-2127