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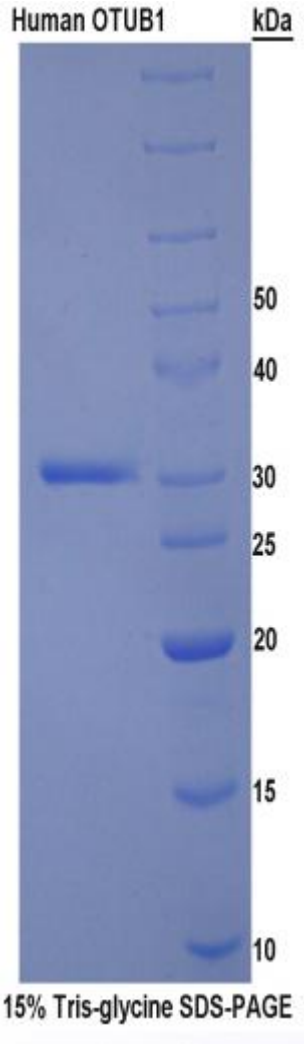
YB80838Hu01
Otubain 1 (OTUB1)
Organism: Homo sapiens (Human)
Instruction manual



15% Tris-glycine SDS-PAGE

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 and plays an important regulatory role at the level of protein turnover by preventing degradation. Regulator of T-cell anergy, a phenomenon that occurs when T-cells are rendered unresponsive to antigen rechallenge and no longer respond to their cognate antigen. Acts via its interaction with RNF128/GRAIL, a crucial inductor of CD4 T-cell anergy.
Subcellular Location: Cytoplasm
Tissue Specificity: Isoform 1 is ubiquitous. Isoform 2 is expressed only in lymphoid tissues such as tonsils, lymph nodes, spleen and peripheral blood mononuclear cells.

[PROPERTIES]

Residues: Met1~Lys271 (Accession # Q96FW1), with a N-terminal His-tag.
Grade & Purity: >97%, 32.53 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: 32.53 kDa

[PREPARATION]

Reconstitute in PBS.

[STORAGE AND STABILITY]

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

Valid period: 12 months stored at -80^{o}C.

[BACKGROUND]

The target protein is fused with a His-tag and its sequence is listed below. The first Met is an initiator amino acid. Moreover, Gly and Ser are added to improve the flexibility of N-terminus at both ends of the His-tag, which will increase the chelating ability of the tag to Ni-Sepharose during purification.

MGHHHHHHSGS-MAAEEPQQQK QEPLGSDSEG VNCLAYDEAI MAQQDRIQQE IAVQNPLVSE RLELSVLYKE YAEDDNIYQQ KIKDLHKKYS YIRKTRPDGN CFYRAFGFSH LEALLDDSKE LQRFKAVSAK SKEDLVSQGF TEFTIEDFHN TFMDLIEQVE KQTSVADLLA SFNDQSTSDY LVVYLRLLTS GYLQRESKFF EHFIEGGRTV KEFCQQEVEP MCKESDHIHI IALAQALSVS IQVEYMDRGE GGTTNPHIFP EGSEPKVYLL YRPGHYDILY K

[REFERENCES]

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