Otubain-1 (human), (recombinant) (His-tag)

Otubain-1 belongs to the ovarian tumor (OTU) domain class of cysteine protease deubiquitinating enzymes and has been implicated in mediating lymphocyte antigen responsiveness and may be generally involved in RNA processing and cell adhesion/morphology. Human otubain-1 has been shown to exhibit high linkage-specificity in vitro, cleaving Lys^{48} (K^{48})-linked polyubiquitin but not K^{63}-, K^{29}-, K^{6}-, or K^{11}-linked polyubiquitin, or linear α-linked polyubiquitin. Cleavage is not limited to either end of a polyubiquitin chain, and both free and substrate-linked polyubiquitin are disassembled.

Ordering Information

Order Online »

BML-UW0680-0100	100µg

Manuals, SDS & CofA

View Online »

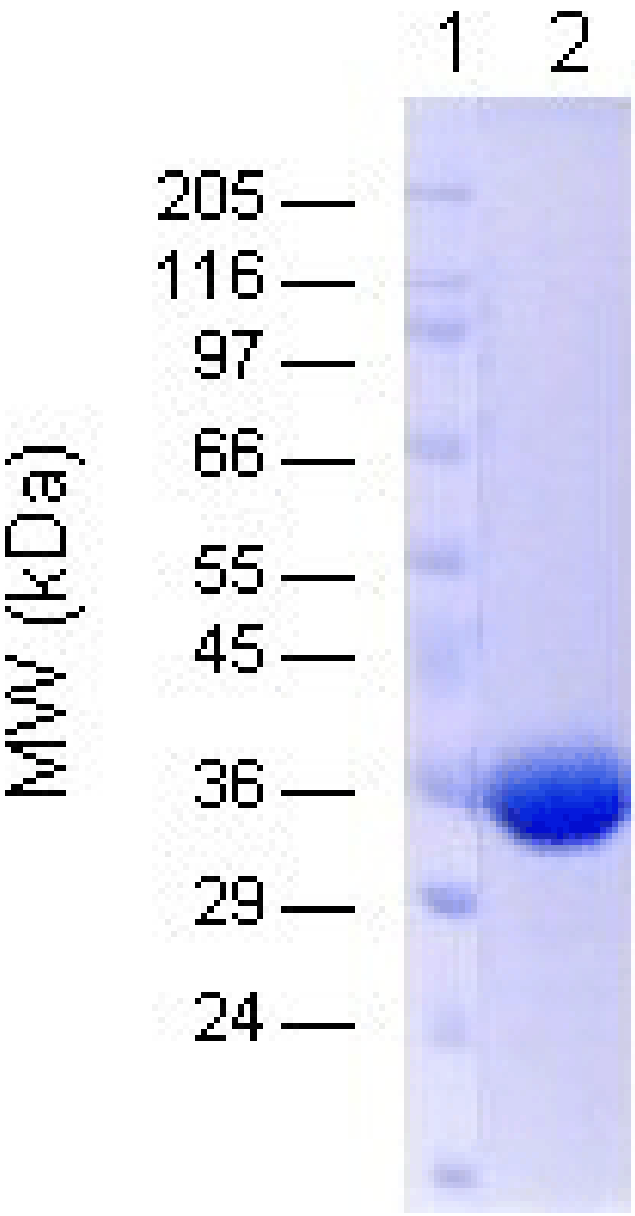


Figure 1: SDS-PAGE image of His_6-Otubain-1 (Coomassie). Lane 1: MW markers. Lane 2: Otubain-1 (human) (recombinant) (His) (Prod. No. BML-UW0680) (8µg).

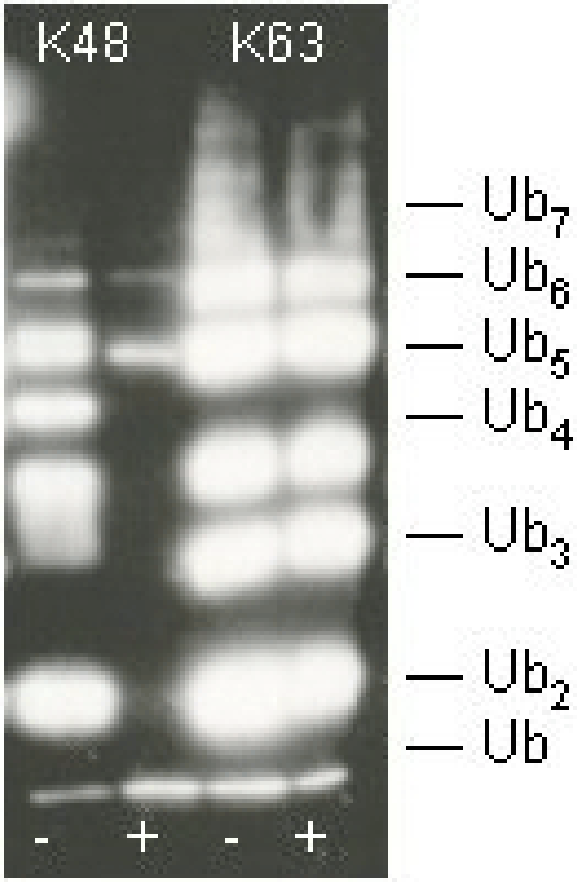


Figure 2: Deubiquitinylation assay: Western Blot showing polyubiquitin chains (K^{48}-linked, Prod. No. BML-UW8860; K^{63}-linked, Prod. No. BML-UW9570) incubated with (+) or without (-) Otubain-1 (Prod. No. BML-UW0680)

Handling & Storage

Use/Stability	Stable for at least 6 months after receipt when stored at -80°C.
Handling	Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -80°C.
Short Term Storage	-80°C
Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	OTUB1, Ubiquitin thioesterase OTUB1, Ubiquitin-specific-processing protease OTUB1, Deubiquitinating enzyme OTUB1
Application Notes	**Uses:** 1. Deubiquitinylation assays using polyubiquitin chains or ubiquitin-protein conjugates. 2. Studies of the K^{48}-linkage specific polyubiquitin chain binding and deubiquitinylation. 3. Investigation of the role of Otubain-1 in various biological processes. 4. Development of inhibitors for Otubain-1 deubiquitinylating activity.
Formulation	Liquid. In 50mM TRIS, pH 7.5, containing 50mM NaCl and 1mM DTT.
MW	~33kDa
Purity	≥95% (SDS-PAGE)
Source	Produced in *E. coli*.
UniProt ID	Q96FW1

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