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## Otubain 1

Cat.No. 280 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

## **Data Sheet**

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl $H_2O$ to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: not tested yet IHC: not tested yet IHC-P/FFPE: not tested yet
Immunogen	Recombinant protein corresponding to AA 1 to 80 from mouse Otubain1 (UniProt Id: Q7TQI3)
Reactivity	Reacts with: rat (B2RYG6), mouse (Q7TQI3). Other species not tested yet.
Specificity	Specific for otubain 1.

## TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Ubiquitination of proteins is a dynamic and reversible process that regulates protein stability and turnover in eukaryotes. The removal of ubiquitin is carried out by **deub**iquitinating (**DUB**) enzymes which can be subdivided into **u**biquitin **c**arboxy-terminal **h**ydrolases (**UCH**s) and **u**biquitin-**s**pecific **p** roteases (**USP**s). The ubiquitin thioesterase **Otubain&nbsp1** belongs to the latter group of proteins.

## **Selected General References**

Positive regulation of p53 stability and activity by the deubiquitinating enzyme Otubain 1. Sun XX, Challagundla KB, Dai MS The EMBO journal (2012) 31(3): 576-92.

The otubain YOD1 is a deubiquitinating enzyme that associates with p97 to facilitate protein dislocation from the ER. Ernst R, Mueller B, Ploegh HL, Schlieker C Molecular cell (2009) 36(1): 28-38.

Structural basis and specificity of human otubain 1-mediated deubiquitination. Edelmann MJ, Iphöfer A, Akutsu M, Altun M, di Gleria K, Kramer HB, Fiebiger E, Dhe-Paganon S, Kessler BM The Biochemical journal (2009) 418(2): 379-90.

Two isoforms of otubain 1 regulate T cell anergy via GRAIL. Soares L, Seroogy C, Skrenta H, Anandasabapathy N, Lovelace P, Chung CD, Engleman E, Fathman CG Nature immunology (2004) 5(1): 45-54.

Otubains: a new family of cysteine proteases in the ubiquitin pathway. Balakirev MY, Tcherniuk SO, Jaquinod M, Chroboczek J EMBO reports (2003) 4(5): 517-22.