





OTUB1 Antibody

Product Code	CSB-PA03595A0Rb
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q96FW1
Immunogen	Recombinant Human Ubiquitin thioesterase OTUB1 protein (2-201AA)
Raised In	Rabbit
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200
Relevance	Hydrolase that can specifically remove \\\Lys-48\\\'-linked 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. Isoform 1 destabilizes RNF128, leading to prevent anergy. In contrast, isoform 2 stabilizes RNF128 and promotes anergy. Surprisingly, it regulates RNF128-mediated ubiquitination, but does not deubiquitinate polyubiquitinated RNF128. Deubiquitinates estrogen receptor alpha (ESR1). Mediates deubiquitination of \\\'Lys-48\\\'-linked polyubiquitin chains. Not able to cleave di-ubiquitin. Also capable of removing NEDD8 from NEDD8 conjugates, but with a much lower preference compared to \\\'Lys-48\\\'-linked ubiquitin. Plays a key non-catalytic role in DNA repair regulation by inhibiting activity of RNF168, an E3 ubiquitin-protein ligase that promotes accumulation of \\\'Lys-63\\\'-linked histone H2A and H2AX at DNA damage sites. Inhibits RNF168 independently of ubiquitin thioesterase activity by binding and inhibiting UBE2N/UBC13, the E2 partner of RNF168, thereby limiting spreading of \\\'Lys-63\\\'-linked histone H2A and H2AX marks. Inhibition occurs by binding to free ubiquitin: free ubiquitin acts as an allosteric regulator that increases affinity for UBE2N/UBC13 and disrupts interaction with UBE2V1. The OTUB1-UBE2N/UBC13-free ubiquitin complex adopts a configuration that mimics a cleaved \\\'Lys48\\\'-linked di-ubiquitin chain.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Purification Method	>95%, Protein G purified
Isotype	IgG
Clonality	Polyclonal
Alias	Ubiquitin thioesterase OTUB1 (EC 3.4.19.12) (Deubiquitinating enzyme OTUB1) (OTU domain-containing ubiquitin aldehyde-binding protein 1) (Otubain-1)



CUSABIO TECHNOLOGY LLC

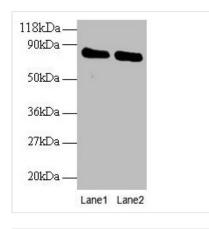




(hOTU1) (Ubiquitin-specific-processing protease OTUB1), OTUB1, OTB1 OTU1

Species	Human
Research Area	Epigenetics and Nuclear Signaling
Target Names	OTUB1

Image



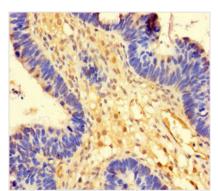
Western blot

All lanes: OTUB1 antibody at 2µg/ml Lane 1: EC109 whole cell lysate Lane 2: 293T whole cell lysate

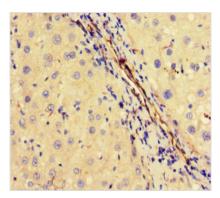
Secondary

Goat polyclonal to rabbit IgG at 1/15000 dilution

Predicted band size: 32, 36 kDa Observed band size: 80 kDa



Immunohistochemistry of paraffin-embedded human ovarian cancer using CSB-PA03595A0Rb at dilution of 1:100



Immunohistochemistry of paraffin-embedded human liver cancer using CSB-PA03595A0Rb at dilution of 1:100