

Datasheet for ABIN7174393
anti-OTUB1 antibody (AA 2-201)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µg
Target:	OTUB1
Binding Specificity:	AA 2-201
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This OTUB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Ubiquitin thioesterase OTUB1 protein (2-201AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	OTUB1
Alternative Name:	OTUB1 (OTUB1 Products)
Background:	Background: 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

Target Details

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, but not Lys-63-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. Aliases: Deubiquitinating enzyme OTUB1 antibody, hOTU1 antibody, HSPC263 antibody, OTB1 antibody, OTU domain containing ubiquitin aldehyde binding protein 1 antibody, OTU domain, ubiquitin aldehyde binding 1 antibody, OTU domain-containing Ubal-binding protein 1 antibody, OTU domain-containing ubiquitin aldehyde-binding protein 1 antibody, OTU-domain Ubal-binding 1 antibody, OTU1 antibody, Otub1 antibody, OTUB1_HUMAN antibody, Otubain 1 antibody, Otubain-1 antibody, Ubiquitin specific processing protease OTUB1 antibody, Ubiquitin thioesterase OTUB1 antibody, ubiquitin-specific protease otubain 1 antibody, Ubiquitin-specific-processing protease OTUB1 antibody

UniProt: [Q96FW1](#)

Application Details

Application Notes: Recommended dilution: WB:1:1000-1:5000, IHC:1:20-1:200,

Restrictions: For Research Use only

Handling

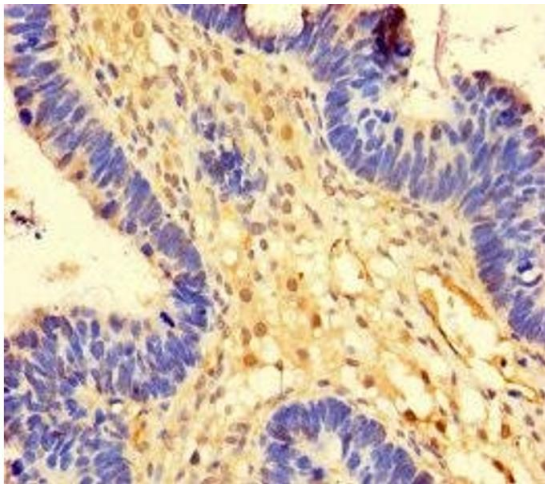
Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300

Handling

	Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



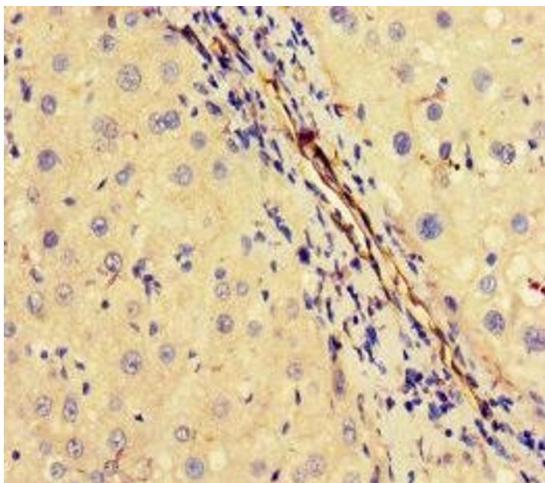
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human ovarian cancer using ABIN7174393 at dilution of 1:100



Western Blotting

Image 2. Western blot All lanes: OTUB1 antibody at 2 µg/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

Image 3. Immunohistochemistry of paraffin-embedded human liver cancer using ABIN7174393 at dilution of 1:100