abcam

Product datasheet

Anti-OTUB1 antibody ab82154

3 Abreviews 2 Images

Overview

Product name	Anti-OTUB1 antibody
Description	Goat polyclonal to OTUB1
Host species	Goat
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse **Predicted to work with:** Rat, Cow, Cynomolgus monkey
Immunogen	Synthetic peptide: C- YKEYAEDDNIYQQK corresponding to internal sequence amino acids 58-71 of human OTUB1 (NP_060140.2). Run BLAST with Run BLAST with
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab82154 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (2)	Use a concentration of 0.03 - 0.1 µg/ml. Predicted molecular weight: 31 kDa. 1 hour primary incubation is recommended for this product.

Target

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. 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 nuch lower preference compared to 'Lys-48'-linked ubiquitin.

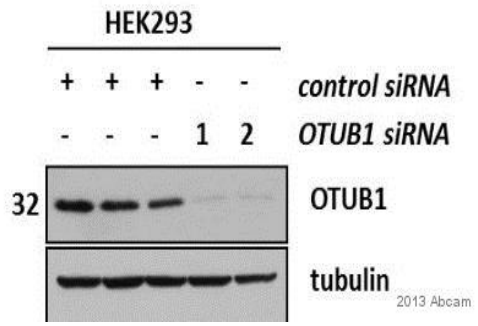
Tissue specificity Isoform 1 is ubiquitous. Isoform 2 is expressed only in lymphoid tissues such as tonsils, lymph nodes and spleen, as well as peripheral blood mononuclear cells.

Sequence similarities Belongs to the peptidase C65 family.
Contains 1 OTU domain.

Domain In addition to ubiquitin-binding at the Cys-91 active site, a proximal ubiquitin-binding site is also present at Cys-23 Occupancy of the active site is needed to enable tight binding to the second site. Distinct binding sites for the ubiquitins may allow to discriminate among different isopeptide linkages (i.e. 'Lys-48'-, 'Lys-63'-linked polyubiquitin) in polyubiquitin substrates and achieve linkage-specific deubiquitination.

Cellular localization Cytoplasm.

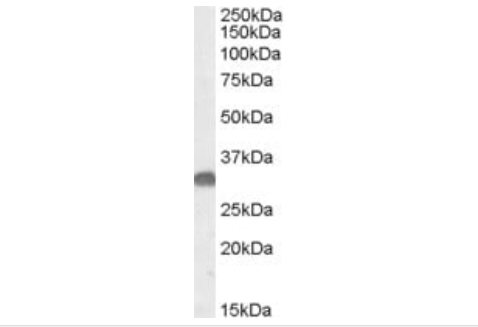
Images



Western blot - Anti-OTUB1 antibody (ab82154)

Image courtesy of an Anonymous review

Anti-OTUB1 antibody (ab82154) reactivity with reduced HEK293 cell lysate after transient transfection (48h) of control siRNA (lane 1-3) or siRNA targeting OTUB1 (lane 4 and 5). After SDS-PAGE, membranes were blocked in 5% milk TBS + 0.1% Tween for 1h at 25°C before incubation with ab82154 (1:1000 dilution in 5% milk TBS + 0.1% Tween) for 16h at 4ºC. Blots was then incubated with an anti-Goat HRP-conjugated secondary antibody before developing with ECL. Anti-tubulin blot included as a loading control.



Western blot - Anti-OTUB1 antibody (ab82154)

Anti-OTUB1 antibody (ab82154) at 0.5 µg/ml + mouse brain lysate in RIPA buffer at 35 µg

Developed using the ECL technique.

Predicted band size: 31 kDa
Observed band size: 31 kDa

Exposure time: 1 hour

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