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OTUD7B / Cezanne Antibody (clone 2B4)

Mouse Monoclonal Antibody
Catalog # ALS14334

Specification

OTUD7B / Cezanne Antibody (clone 2B4) - Product Information

Application	**IHC**
Primary Accession	Q6GQQ9
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**93kDa KDa**

OTUD7B / Cezanne Antibody (clone 2B4) - Additional Information

Gene ID 56957

Other Names
OTU domain-containing protein 7B, 3.4.19.12, Cellular zinc finger anti-NF-kappa-B protein, Zinc finger A20 domain-containing protein 1, Zinc finger protein Cezanne, OTUD7B, ZA20D1

Target/Specificity
Human OTUD7B

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
OTUD7B / Cezanne Antibody (clone 2B4) is for research use only and not for use in diagnostic or therapeutic procedures.

OTUD7B / Cezanne Antibody (clone 2B4) - Protein Information

Name OTUD7B

Synonyms ZA20D1

Function
Negative regulator of the non-canonical NF-kappa-B pathway that acts by mediating deubiquitination of TRAF3, an inhibitor of the NF-kappa-B pathway, thereby acting as a negative regulator of B-cell responses. In response to non-canonical NF-kappa-B stimuli, deubiquitinates 'Lys-48'-linked polyubiquitin chains of TRAF3, preventing TRAF3 proteolysis and over-activation of non-canonical NF- kappa-B. Negatively regulates mucosal immunity against infections (By similarity). Deubiquitinates ZAP70, and thereby regulates T cell receptor (TCR) signaling that leads to the activation of NF-kappa-B (PubMed:26903241). Plays a role in T cell homeostasis and is required for normal T cell responses, including production of IFNG and IL2 (By similarity). Mediates deubiquitination of EGFR (PubMed:<a href="http://www.uniprot.org/citations/22179831"

target="_blank">22179831). Has deubiquitinating activity toward 'Lys-11', 'Lys-48' and 'Lys-63'-linked polyubiquitin chains (PubMed:27732584). Has a much higher catalytic rate with 'Lys-11'-linked polyubiquitin chains (in vitro); however the physiological significance of these data are unsure (PubMed:27732584). Hydrolyzes both linear and branched forms of polyubiquitin.

Cellular Location
Cytoplasm. Nucleus Note=Shuttles be cytoplasm and the nucleus in a XPO1/CRM1-dependent manner.

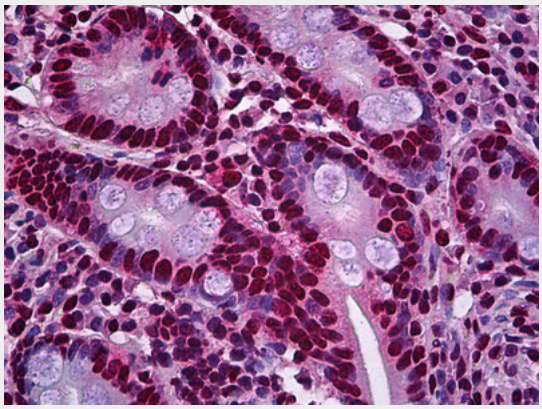
Tissue Location
Widely expressed. Abundant in kidney, heart and fetal liver. Expressed differentially among B-cells at distinct developmental stages. Higher expression seen in primary immature B- cells as compared to the mature cells.

OTUD7B / Cezanne Antibody (clone 2B4) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

OTUD7B / Cezanne Antibody (clone 2B4) - Images



Anti-OTUD7B antibody IHC of human small intestine.

OTUD7B / Cezanne Antibody (clone 2B4) - Background

Negative regulator of the non-canonical NF-kappa-B pathway that acts by mediating deubiquitination of TRAF3, an inhibitor of the NF-kappa-B pathway, thereby acting as a negative regulator of B-cell responses. In response to non-canonical NF- kappa-B stimuli, deubiquitinates 'Lys-48'-linked polyubiquitin chains of TRAF3, preventing TRAF3 proteolysis and over-activation of non-canonical NF-kappa-B. Negatively regulates mucosal immunity against infections. Mediates deubiquitination of EGFR. Has deubiquitinating activity toward 'Lys-11', 'Lys-48' or 'Lys-63'- linked

polyubiquitin chains. In vitro, has preference for 'Lys- 11'-linked polyubiquitin chains; however such data are unsure in vivo. Hydrolyzes both linear and branched forms of polyubiquitin.

OTUD7B / Cezanne Antibody (clone 2B4) - References

Evans P.C.,et al.Biochem. J. 357:617-623(2001).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Bechtel S.,et al.BMC Genomics 8:399-399(2007).