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Cezanne Rabbit pAb

Catalog # AP98883

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6GQQ9
Other Accession	Q6GQQ9
Reactivity	Rat
Predicted	Human, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	92526
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Cezanne
Epitope Specificity	451-550/843
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the peptidase C64 family. Contains 1 A20-type zinc finger. Contains 1 OTU domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	OTUD7B (OTU domain-containing protein 7B), also known as ZA20D1 or Cezanne, is an 843 amino acid protein that localizes to both the nucleus and the cytoplasm. Expressed in a variety of tissues, including liver, kidney, heart and immature B-cells, OTUD7B functions to hydrolyze branched and linear forms of polyubiquitin, specifically deubiquinating Lys-48- and Lys-63-linked polyubiquitin chains. Via its ability to deubiquinate target proteins, OTUD7B regulates the inflammatory response within the cell and may play a role in cell survival. More specifically, OTUD7B forms a negative feedback loop in pro-inflammatory signaling, thereby suppressing NF x B activity and helping to resolve inflammatory responses. OTUD7B contains one C-terminal A20-type zinc finger, one OTU domain and one N-terminal TRAF-binding domain through which it conveys its deubiquitinating activity.

Additional Information

Gene ID	56957
Other Names	CEZANNE; ZA20D1; 2900060B22Rik; 4930463P07Rik; Trabid2; RGD1308111; OTU7B_HUMAN; OTUD7B; Cellular zinc finger anti-NF-kappa-B protein (Cezanne); Zinc finger A20 domain-containing protein 1; Zinc finger protein Cezanne; 3.4.19.12; OTU deubiquitinase 7B; zinc finger, A20 domain containing 1; OTU domain containing 7B
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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 (PubMed:18178551). 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 (By similarity). 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:22179831). Has deubiquitinating activity toward 'Lys-11', 'Lys- 48' and 'Lys-63'-linked polyubiquitin chains (PubMed:11463333, PubMed:20622874, PubMed:23827681, 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 (PubMed:12682062). Acts as a regulator of mTORC1 and mTORC2 assembly by mediating 'Lys-63'-linked deubiquitination of MLST8, thereby promoting assembly of the mTORC2 complex, while inhibiting formation of the mTORC1 complex (PubMed:28489822).
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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.