

Otubain-1 Rabbit pAb

CatalogNo: YT5679

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA

MW

- 31kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-1:2000

ELISA 1:10000

Not yet tested in other applications.

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

Synthesized peptide derived from Otubain-1 . at AA range: 20-100

Specificity

Otubain-1 Polyclonal Antibody detects endogenous levels of Otubain-1 protein.

Target Information

Gene name

OTUB1

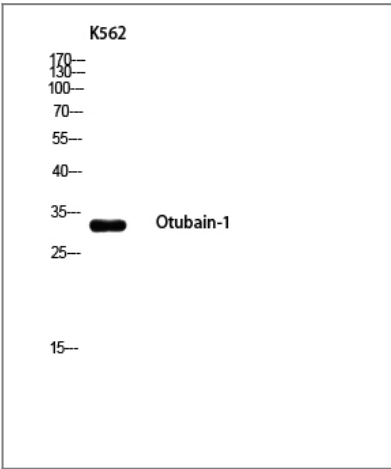
Protein Name	Ubiquitin thioesterase OTUB1		
	Organism	Gene ID	UniProt ID
	Human	55611;	Q96FW1;
	Mouse	107260;	Q7TQI3;
	Rat	293705;	B2RYG6;

Cellular Localization Cytoplasm .

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.

Function Function:Hydrolase that can remove conjugated ubiquitin from proteins in vitro and may therefore play 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 rechallange 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.,similarity:Belongs to the peptidase C65 family.,similarity:Contains 1 OTU domain.,subunit:Isoform 1 and isoform 2 interact with RNF128. Isoform 1 forms a ternary complex with RNF128 and USP8. Isoform 1 interacts with the C-terminal UCH catalytic domain of USP8. Isoform 2 does not associate with USP8.,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.,

| Validation Data



Western blot analysis of K562 using Otubain-1 antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

| Contact information

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**Otubain-1 Rabbit
pAb**

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