Recombinant OTUB2 Monoclonal Antibody

catalog number: AN300435P

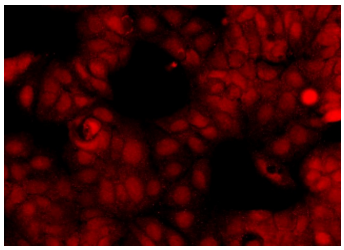
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	Recombinant Human OTUB2 Protein
Host	Rabbit
Isotype	IgG
Clone	B361
Purification	Protein A
Buffer	0.2 μm filtered solution in PBS

Applications	Recommended Dilution
ICC/IF	1:20-1:100

Data



Immunofluorescence analysis of Human OTUB2 in A549 cells. Cells were fixed with 4% PFA, permeabilzed with 0.3% Triton X-100 in PBS, blocked with 10% serum, and incubated with rabbit anti-Human OTUB2 monoclonal antibody (1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor® 549-conjugated Goat Anti-rabbit IgG secondary antibody (red). Positive staining was localized to cytoplasm and nucleus.

Preparation & Storage

Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Shipping	Ice bag

Background

Otubain 2 (OTUB2) is a member of DUBs that belong to the ovarian tumour (OTU) superfamily of proteins which consists of a five-stranded β-sheet sandwiched in between a small helical amino-terminal region consisting of α1 and α2, and a large helical region comprised of α3-α10. Like other DUBs, otubain 2 (OTUB2) cleaves proteins precisely at the ubiquitin-protein bond so that ubiquitylation process can be reversed and regulated. Otubain 2 (OTUB2)'s active-site cleft is sterically occluded by a novel loop conformation resulting in an oxyanion hole, which consists uniquely of backbone amides. Furthermore, the residues that orient and stabilize the active-site histidine of otubain 2 (OTUB2) are different from other cysteine proteases. This reorganization of the active-site topology provides a possible explanation for the low turnover and substrate specificity of the otubains.

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