

# Ubiquitin D Rabbit mAb

Catalog # AP79030

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC
<b>Primary Accession</b>	<a href="#">O15205</a>
<b>Reactivity</b>	Human, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Monoclonal Antibody
<b>Isotype</b>	IgG
<b>Conjugate</b>	Unconjugated
<b>Immunogen</b>	A synthesized peptide derived from human Ubiquitin D
<b>Purification</b>	Affinity Chromatography
<b>Calculated MW</b>	18473

## Additional Information

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<b>Gene ID</b>	10537
<b>Other Names</b>	UBD
<b>Dilution</b>	WB~~1/500-1/1000 IHC-P~~N/A IF~~1:50~200 ICC~~N/A
<b>Format</b>	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

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<b>Name</b>	UBD
<b>Synonyms</b>	FAT10
<b>Function</b>	Ubiquitin-like protein modifier which can be covalently attached to target proteins and subsequently leads to their degradation by the 26S proteasome, in a NUB1-dependent manner (PubMed: <a href="#">15831455</a> , PubMed: <a href="#">16707496</a> , PubMed: <a href="#">19166848</a> ). Conjugation to the target protein is activated by UBA6 via adenylation of its C-terminal glycine (PubMed: <a href="#">17889673</a> , PubMed: <a href="#">35970836</a> ). Promotes the expression of the proteasome subunit beta type-9 (PSMB9/LMP2). Regulates TNF-induced and LPS-mediated activation of the central mediator of innate immunity NF- kappa-B by promoting TNF-mediated proteasomal degradation of ubiquitinated-I-kappa-B-alpha (PubMed: <a href="#">19959714</a> ). Required for TNF- induced p65 nuclear translocation in renal tubular epithelial cells (RTECs). May be involved in dendritic cell (DC) maturation, the process by which immature dendritic cells differentiate into

fully competent antigen-presenting cells that initiate T-cell responses (PubMed:[19028597](#)). Mediates mitotic non-disjunction and chromosome instability, in long-term in vitro culture and cancers, by abbreviating mitotic phase and impairing the kinetochore localization of MAD2L1 during the prometaphase stage of the cell cycle (PubMed:[16495226](#)). May be involved in the formation of aggresomes when proteasome is saturated or impaired (PubMed:[19033385](#)). Mediates apoptosis in a caspase- dependent manner, especially in renal epithelium and tubular cells during renal diseases such as polycystic kidney disease and Human immunodeficiency virus (HIV)-associated nephropathy (HIVAN) (PubMed:[16495380](#)).

### Cellular Location

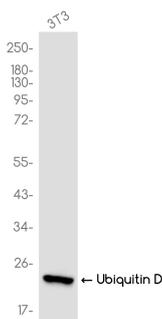
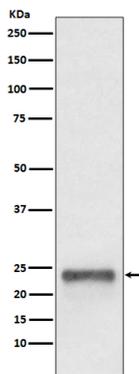
Nucleus. Cytoplasm {ECO:0000250|UniProtKB:P63072} Note=Accumulates in aggresomes under proteasome inhibition conditions

### Tissue Location

Constitutively expressed in mature dendritic cells and B-cells. Mostly expressed in the reticuloendothelial system (e.g thymus, spleen), the gastrointestinal system, kidney, lung and prostate gland.

## Images

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