

For Research Use Only

# UBD Polyclonal ANTIBODY



Catalog Number: 13003-2-AP

Featured Product

8 Publications

## Basic Information

Catalog Number:

13003-2-AP

Size:

150UL, Concentration: 300 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3680

GenBank Accession Number:

BC012472

GeneID (NCBI):

10537

Full Name:

ubiquitin D

Calculated MW:

165 aa, 18 kDa

Purification Method:

Antigen affinity purification

## Applications

Tested Applications:

ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

## Background Information

UBD, also named as FAT10, contains two ubiquitin-like domains. It is a ubiquitin-like protein modifier which can be covalently attached to target protein and subsequently leads to their degradation by the 26S proteasome, in a NUB1L-dependent manner. UBD also has important roles in cell mitosis, chromosome instability, apoptosis and immune response. UBD 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). It promotes the expression of the proteasome subunit beta type-9 (PSMB9/LMP2). UBD regulates TNF-alpha-induced and LPS-mediated activation of the central mediator of innate immunity NF-kappa-B by promoting TNF-alpha-mediated proteasomal degradation of ubiquitinated-I-kappa-B-alpha. It 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. UBD may be a marker for precancerous lesions and may promote cancer progression. This antibody is a rabbit polyclonal antibody raised against full length UBD of human origin.

## Notable Publications

Author	Pubmed ID	Journal	Application
Masayuki Kimura	26558467	J Toxicol Sci	
Masayuki Kimura	26011634	J Appl Toxicol	IHC
Anuj Sehgal	27663963	Immunobiology	IF

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

---

## Selected Validation Data