

For Research Use Only

FAT10 Polyclonal antibody

Catalog Number: 13003-2-AP

Featured Product

10 Publications



Basic Information

Catalog Number: 13003-2-AP	GenBank Accession Number: BC012472	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 153 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 10537	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	Full Name: ubiquitin D	
Isotype: IgG	Calculated MW: 165 aa, 18 kDa	
Immunogen Catalog Number: AG3680		

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : TNF alpha and IFN gama treated HepG2 cells,
Cited Applications: IF, IHC, WB	
Species Specificity: human	
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

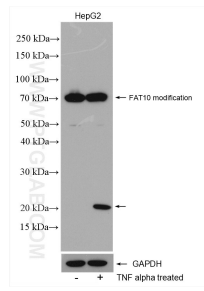
Storage

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:
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Selected Validation Data



TNF alpha and IFN gama treated HepG2 cells were subjected to SDS PAGE followed by western blot with 13003-2-AP (FAT10 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.