For Research Use Only

## FAT10 Polyclonal antibody

Catalog Number:13003-2-AP

Featured Product

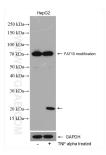
15 Publications

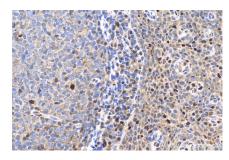


## Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 13003-2-AP BC012472 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 500 ug/ml by 10537 WB 1:500-1:2000 Nanodrop: IHC 1:500-1:2000 UNIPROT ID: Source 015205 Rabbit Full Name: Isotype ubiquitin D lgG Calculated MW: Immunogen Catalog Number: 165 aa, 18 kDa AG3680 **Observed MW:** 20 kDa, 70kDa **Tested Applications:** Positive Controls: **Applications** WB, IHC, ELISA WB: TNF alpha and IFN gamma treated HepG2 cells, **Cited Applications:** IHC : human tonsillitis tissue, human lung cancer WB, IHC, IF tissue, human lymphoma tissue, human stomach **Species Specificity:** cancer tissue human **Cited Species:** human, mouse, rat Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 **Background Information** FAT10, also named UBD, contains two ubiquitin-like domains. It is a ubiquitin-like protein modifier that can be covalently attached to the target protein and subsequently leads to their degradation by the 26S proteasome, in a NUB1L-dependent manner. FAT10 also has important roles in cell mitosis, chromosome instability, apoptosis, and immune response. FAT10 mediates apoptosis in a caspase-dependent manner, especially in the 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). FAT10 regulates TNF-alpha-induced and LPS-mediated activation of the central mediator of innate immunity NFkappa-B by promoting TNF-alpha-mediated proteasomal degradation of ubiquitinated-l-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. FAT10 may be a marker for precancerous lesions and may promote cancer progression. This antibody is a rabbit polyclonal antibody raised against full-length FAT10 of human origin. Notable Publications Application Author Pubmed ID Journal Masayuki Kimura 26558467 J Toxicol Sci Masayuki Kimura 26011634 J Appl Toxicol IHC 27663963 Immunobiology IF Anuj Sehgal 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 \*\*\* 20ul sizes contain 0.1% BSA For technical support and original validation data for this product please contact:

For technical support and original validation da 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

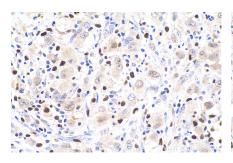




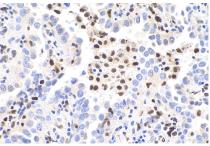
TNF alpha and IFN gamma treated HepG2 cells were subjected to SDS PAGE followed by western blot with 13003-2-AP (FAT10 antibody) at dilution of 1:1000 and incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffinembedded human tonsillitis tissue slide using 13003-2-AP (FAT10 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffinembedded human stomach cancer tissue slide using 13003-2-AP (FAT10 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lymphoma tissue slide using 13003-2-AP (FAT10 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 13003-2-AP (FAT10 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).