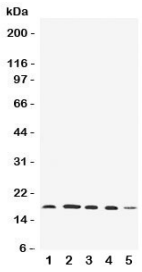
FAT10 Antibody / Ubiquitin D / UBD (R31346)

Catalog No.	Formulation	Size
R31346	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	O15205
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
Limitations	This FAT10 antibody is available for research use only.



Western blot testing of FAT10 antibody and Lane 1: HeLa; 2: SKOV; 3: MCF-7; 4: A549; 5: SMMC-7721 cell lysate. Expected/observed size: 18-22 kDa.

Description

Ubiquitin D, Diubiquitin or FAT10 (HLA-F-adjacent transcript 10), is a protein that in humans is encoded by the UBD gene. It is a ubiquitin-like protein modifier that can be covalently attached to target protein and subsequently leads to their degradation by the 26S proteasome in a NUB1L-dependent manner. This gene 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. It may be involved in the formation of aggresomes when proteasome is saturated or impaired. FAT10 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 may also function as a survival factor.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the FAT10 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the N-terminus of human HLA-F-adjacent transcript 10 (YDSVKKIKEHVRSK) was used as the immunogen for this FAT10 antibody.

Storage

After reconstitution, the FAT10 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.