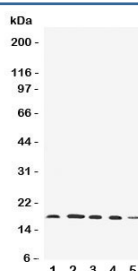


## FAT10 Antibody / Ubiquitin D / UBD (R31346)

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

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
<b>UniProt</b>	O15205
<b>Applications</b>	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
<b>Limitations</b>	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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.