

Product datasheet

Anti-FAT10 antibody [EPR4370] ab134077

Recombinant RabMAb

★★★★☆ 1 Abreviews 3 References 2 Images

Overview

Product name	Anti-FAT10 antibody [EPR4370]
Description	Rabbit monoclonal [EPR4370] to FAT10
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC Unsuitable for: Flow Cyt or IP
Species reactivity	Reacts with: Mouse, Human
Immunogen	within Human FAT10 aa 100 to the C-terminus. The exact sequence is proprietary. Database link: O15205
Positive control	HepG2, MOLT4, K562, and Daudi cell lysates; Human kidney tissue.
General notes	Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . This product is a recombinant rabbit monoclonal antibody .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR4370
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab134077** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 22 kDa (predicted molecular weight: 18 kDa).
IHC-P	★★★★☆	1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
ICC		1/100 - 1/250.

Application notes Is unsuitable for Flow Cyt or IP.

Target

Function 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. Probably functions as a survival factor. Conjugation ability activated by UBA6. Promotes the expression of the proteasome subunit beta type-9 (PSMB9/LMP2). 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-Ikappa-B-alpha. Required for TNF-alpha-induced p65 nuclear translocation in renal tubular epithelial cells (RTECs). 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. Mediates mitotic non-disjunction and chromosome instability, in long-term in vitro culture and cancers, by abbreviating mitotic phase and impairing the kinetochore localization of MAD2L1 during the prometaphase stage of the cell cycle. May be involved in the formation of aggresomes when proteasome is saturated or impaired. 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).

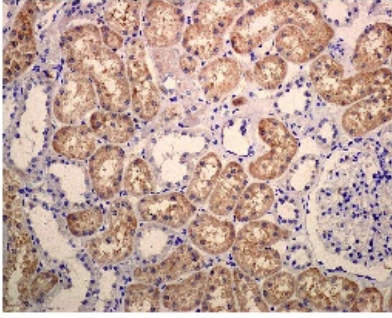
Tissue specificity Constitutively expressed in mature dendritic cells and B cells. Mostly expressed in the reticuloendothelial system (e.g. thymus, spleen), the gastrointestinal system, kidney, lung and prostate gland.

Sequence similarities Contains 2 ubiquitin-like domains.

Post-translational modifications Can be acetylated.

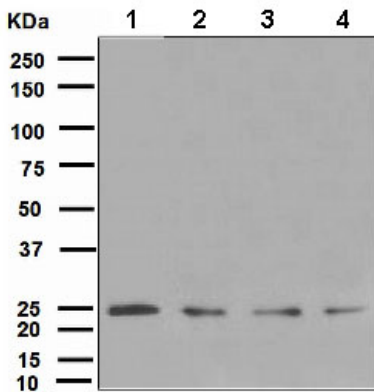
Cellular localization Nucleus. Cytoplasm. Accumulates in aggresomes under proteasome inhibition conditions.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-FAT10 antibody [EPR4370] (ab134077)

Immunohistochemical analysis of paraffin embedded Human kidney tissue labelling FAT10 with ab134077 at a dilution of 1/50.



Western blot - Anti-FAT10 antibody [EPR4370] (ab134077)

All lanes : Anti-FAT10 antibody [EPR4370] (ab134077) at 1/1000 dilution

Lane 1 : HepG2 cell lysate

Lane 2 : MOLT4 cell lysate

Lane 3 : K562 cell lysate

Lane 4 : Daudi cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled Goat anti-rabbit at 1/2000 dilution

Predicted band size: 18 kDa

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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