Revision 1

Store at -20C

#76194

FAT10 (D1Q3Y) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	18	Rabbit IgG	#O15205	10537

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

FAT10 (D1Q3Y) Rabbit mAb recognizes endogenous levels of total FAT10 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human FAT10 protein.

Background

HLA-F adjacent transcript 10 (FAT10/Ubiquitin D) belongs to the ubiquitin-like modifier (Ubl) family of proteins. The 18 kDa FAT10 protein contains two tandem Ubl domains that are oriented in a head-to-tail fashion and a free C-terminal di-glycine motif, which is available for isopeptide bond formation with target proteins via an E1-E2-E3 enzymatic cascade (1). Indeed, FAT10 provides a ubiquitin-independent signal for proteasomal degradation (2). Research studies have demonstrated that FAT10 expression is enriched in lymphoid organs and that its expression is transiently upregulated via the NF-kB pathway in response to pro-inflammatory cytokines such as TNFα and IFNγ (1,3-5). In solid tumors that possess inflammatory microenviroments, research studies have shown that FAT10 is overexpressed and may serve as a biomarker for inflamed tumors (3,4).

Background References

1. Raasi, S. et al. (1999) *Eur J Immunol* 29, 4030-6.
2. Hipp, M.S. et al. (2005) *Mol Cell Biol* 25, 3483-91.
3. Lee, C.G. et al. (2003) *Oncogene* 22, 2592-603.
4. Lukasiak, S. et al. (2008) *Oncogene* 27, 6068-74.
5. Ren, J. et al. (2011) *J Cell Sci* 124, 3665-75.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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