

**FAT10 (D1Q3Y) Rabbit mAb**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 18	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O15205	<b>Entrez-Gene Id:</b> 10537
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	FAT10 (D1Q3Y) Rabbit mAb recognizes endogenous levels of total FAT10 protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human FAT10 protein.	
<b>Background</b>	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-κB pathway in response to pro-inflammatory cytokines such as TNFα and IFNγ (1,3-5). In solid tumors that possess inflammatory microenvironments, research studies have shown that FAT10 is overexpressed and may serve as a biomarker for inflamed tumors (3,4).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Raasi, S. et al. (1999) <i>Eur J Immunol</i> 29, 4030-6.</li> <li>2. Hipp, M.S. et al. (2005) <i>Mol Cell Biol</i> 25, 3483-91.</li> <li>3. Lee, C.G. et al. (2003) <i>Oncogene</i> 22, 2592-603.</li> <li>4. Lukasiak, S. et al. (2008) <i>Oncogene</i> 27, 6068-74.</li> <li>5. Ren, J. et al. (2011) <i>J Cell Sci</i> 124, 3665-75.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	<b>IMPORTANT:</b> 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.
<b>Applications Key</b>	<b>W:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> Human
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