## ឝ្តូ ឝ្តុ ALDH1A2 (E6O6Q) Rabbit mAb





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Applications: W, IF-IC, FC-FP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 60	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O94788	Entrez-Gene Id: 8854		
Product Usage Information		<b>Application</b> Western Blotting Immunofluorescence Flow Cytometry (Fixed		<b>Dilution</b> 1:1000 1:200 - 1:800 1:400 - 1:1600				
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/Sen	sitivity	ALDH1A2 (E6O6Q) Rabbit mAb recognizes endogenous levels of total ALDH1A2 protein.						
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro9 of human ALDH1A2 protein.						
Background		The aldehyde dehydrogenase family is a large group of enzymes that catalyze the oxidization of aldehydes into carboxylic acids (1). Aldehyde Dehydrogenase 1A2 (ALDH1A2, RALHD2) is among a group of aldehyde dehydrogenases that catalyze the metabolism of retinaldehyde into retinoic acid (RA), which plays a critically important signaling role in animal development (2). Research studies have shown that ALDH1A2 also plays a role postnatally in modulating the effects of RA signaling on immune cell function (3-5). In one example using a genetic mouse model, it was shown that ALDH1A2-dependent RA signaling was a downstream mediator of NOTCH-dependent T cell differentiation (6).						
Background Re	eferences	1. Jackson, B. et al. (2011) <i>Hum Genomics</i> 5, 283-303. 2. Means, A.L. and Gudas, L.J. (1995) <i>Annu Rev Biochem</i> 64, 201-33. 3. Dalmas, E. et al. (2017) <i>Immunity</i> 47, 928-942.e7. 4. Shiokawa, A. et al. (2017) <i>Immunology</i> 152, 52-64. 5. Yokota-Nakatsuma, A. et al. (2016) <i>Sci Rep</i> 6, 37914. 6. Zaman, T.S. et al. (2017) <i>J Immunol</i> 199, 1989-97.						
Species Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	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 K	еу	<b>W:</b> Western Blotting <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)						
Cross-Reactivit	y Key	H: Human						
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