## န္မွ ALDH1L1 (E7D7G) Rabbit mAb





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Applications: W, W-S, IF-F	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 98	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #O75891	<b>Entrez-Gene Id:</b> 10840		
Product Usage Information		<b>Application</b> Western Blotting Simple Western™ Immunofluorescence (Frozen)			<b>Dilution</b> 1:1000 1:50 - 1:250 1:50			
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. <i>Do not aliquot the antibody.</i>						
Specificity/Sen	sitivity	ALDH1L1 (E7D7G) Rabbit mAb recognizes endogenous levels of total ALDH1L1 protein. This product detects only Rodent ALDH1L1 for the IF-F and IF-IC applications.						
Source / Purifi	cation		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp158 of human ALDH1L1 protein.					
Background		Aldehyde dehydrogenase 1 family member L1 (ALDH1L1), also known as 10-formyltetrahydrofolate dehydrogenase (FDH), is a member of the aldehyde dehydrogenase super family. It is a key enzyme in folate metabolism, playing an important role in regulation of cellular metabolism including proliferation (1,2). Downregulation of ALDH1L1 has been seen in tumors, leading to decreased suppression of cancer cell proliferation (2,3).						
		ALDH1L1 has also been shown to be a useful astrocyte marker throughout the gray and white matte of the brain, labeling both the cell body and processes of astrocytes. ALDH1L1 does not label oligodendrocytes or neurons (4). It has been shown that expression of ALDH1L1 in astrocytes is stab expressed through normal tissue and during astrogliosis (5).						
Background Ro	eferences	1. Krupenko, S.A. (2009) <i>Chem Biol Interact</i> 178, 84-93. 2. Krupenko, S.A. and Oleinik, N.V. (2002) <i>Cell Growth Differ</i> 13, 227-36. 3. Chen, X.Q. et al. (2012) <i>Med Oncol</i> 29, 1843-9. 4. Cahoy, J.D. et al. (2008) <i>J Neurosci</i> 28, 264-78. 5. Michalovicz, L.T. et al. (2019) <i>J Neurochem</i> 150, 420-40.						
Species Reacti	vity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	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 K	ey	W: Western Blotting W-S: Simple Western™ IF-F: Immunofluorescence (Frozen)						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
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