## န္မွ ALDH1L1 (E7D7G) Rabbit mAb





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| Applications:<br>W, W-S, IF-F   | <b>Reactivity:</b><br>H M R | <b>Sensitivity:</b><br>Endogenous  | <b>MW (kDa):</b><br>98   | Source/Isotype:<br>Rabbit IgG | <b>UniProt ID:</b><br>#O75891                     | <b>Entrez-Gene Id:</b><br>10840 |  |  |
|---|-----------------------------|--|--|-------------------------------|---|---------------------------------|--|--|
| Product Usage<br>Information  |                             | <b>Application</b><br>Western Blotting<br>Simple Western™<br>Immunofluorescence (Frozen)   |  |                               | <b>Dilution</b><br>1:1000<br>1:50 - 1:250<br>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<br>residues surrounding Asp158 of human ALDH1L1 protein. |                               |   |                                 |  |  |
| Background  |                             | Aldehyde dehydrogenase 1 family member L1 (ALDH1L1), also known as 10-formyltetrahydrofolate<br>dehydrogenase (FDH), is a member of the aldehyde dehydrogenase super family. It is a key enzyme in<br>folate metabolism, playing an important role in regulation of cellular metabolism including<br>proliferation (1,2). Downregulation of ALDH1L1 has been seen in tumors, leading to decreased<br>suppression of cancer cell proliferation (2,3). |  |                               |   |                                 |  |  |
|   |                             | ALDH1L1 has also been shown to be a useful astrocyte marker throughout the gray and white matte<br>of the brain, labeling both the cell body and processes of astrocytes. ALDH1L1 does not label<br>oligodendrocytes or neurons (4). It has been shown that expression of ALDH1L1 in astrocytes is stab<br>expressed through normal tissue and during astrogliosis (5).  |  |                               |   |                                 |  |  |
| Background Ro   | eferences                   | 1. Krupenko, S.A. (2009) <i>Chem Biol Interact</i> 178, 84-93.<br>2. Krupenko, S.A. and Oleinik, N.V. (2002) <i>Cell Growth Differ</i> 13, 227-36.<br>3. Chen, X.Q. et al. (2012) <i>Med Oncol</i> 29, 1843-9.<br>4. Cahoy, J.D. et al. (2008) <i>J Neurosci</i> 28, 264-78.<br>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<br>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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