

Mouse Monoclonal Antibody to ALDH1A1

Catalogue Number	sAP-0454
Target Molecule	<p>Name: ALDH1A1</p> <p>Aliases: ALDC; ALDH1; PUMB1; ALDH11; RALDH1; ALDH-E1; MGC2318; ALDH1A1</p> <p>MW: 55kDa</p> <p>Entrez Gene ID: 216</p>
Description	<p>ALDH1A1 is an aldehyde dehydrogenase able to oxidize a wide variety of aliphatic aldehydes (retinaldehyde, acetaldehyde, etc.) to the corresponding carboxylic acids (retinoic acid, acetic acid, etc.). ALDH1A1 (also known as RALDH1, ALDH1, or AHD2) is highly expressed in the dorsal retina, ventral mid-brain (dopaminergic neurons), and hematopoietic stem cells. ALDH1A1 is involved in retinoic acid (RA) synthesis during vertebrate embryogenesis. ALDH1A1 is first detected at E9.0-E10.5 in cranial tissues (ventral mesencephalon, dorsal retina, thymic primordia, optic vesicles) and in the mesonephros. ALDH1A1 is also of interest in Parkinson's Disease (PD) being expressed in the the A9 dopaminergic (DA) neuronal group projecting to the dorsal striatum; this is the most vulnerable site in PD (Chung et al, 2005). ALDH1A1</p>
Immunogen	Purified recombinant fragment of human ALDH1A1 expressed in E. Coli. ;
Reactive Species	Human
Clone	MM5A11;
Size and Concentration	100µg/1mg/ml
Supplied as	Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.
Reconstitution/Storages	Reconstituted with 100µl sterile DI H ₂ O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1. J Hum Genet. 2009 Jun;54(6):317-23. ; 2. J Hum Genet. 2009 Oct;54(10):564-71. ; 3. J Neurosci Res. 2010 Feb 15;88(3):686-94.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**