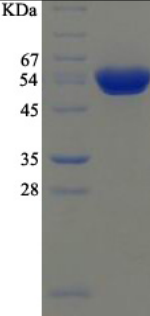


Recombinant Human ALDH1A1 Protein Data Sheet

Catalog #	hRP-U0011-EF011
Size	25 µg
Protein Name	Human retinal dehydrogenase 1
Protein Symbol	ALDH1A1
Original Source	<i>Homo sapiens</i>
Expression System	<i>E.coli</i>
GenBank Accession #	NM_000689.1
Uniprot Accession #	P00352
Description	This protein belongs to the aldehyde dehydrogenases family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. Two major liver isoforms of this enzyme, cytosolic and mitochondrial, can be distinguished by their electrophoretic mobilities, kinetic properties, and subcellular localizations. Most Caucasians have two major isozymes, while approximately 50% of Orientals have only the cytosolic isozyme, missing the mitochondrial isozyme. A remarkably higher frequency of acute alcohol intoxication among Orientals than among Caucasians could be related to the absence of the mitochondrial isozyme. This gene encodes a cytosolic isoform, which has a high affinity for aldehydes.
Application	WB, ELISA, IP, antibody production, protein array
Fusion tag	N-His
Peptide Length	516aa(including fusion tag)
Molecular Weight	56.8kDa(including fusion tag)
pI	7.0
Activity	NA
Storage	Storage buffer: 20mM Tris.Cl, 50mM NaCl, 20% Glycerol, pH9.0. Store at -80°C and avoid repeated freeze-thaw cycles.
	
Reference:	• Aldehyde dehydrogenase: its role as a cancer stem cell marker comes down to the specific isoform • ALDH1A1 is a marker of astrocytic differentiation during brain development and correlates with better survival in glioblastoma patients • Functional significance of aldehyde dehydrogenase ALDH1A1 to the nigrostriatal dopamine system • Focus on Molecules: ALDH1A1: From lens and corneal crystallin to stem cell marker

GeneCopoeia™
Expressway to Discovery

GeneCopoeia Inc.

9620 Medical Center Drive, Suite 101

Rockville, MD 20850

USA

Phone: 301-762-0888

Toll free: 1-866-360-9531

Fax: 301-762-3888

Web: www.genecopoeia.com

Inquiry: inquiry@genecopoeia.com

Technical Support: support@genecopoeia.com