

KO-Validated Anti-ALDH1A3 Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI2441

Product Information

Application	WB
Primary Accession	P47895
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	25GB3800
Calculated MW	56108
Gene Name	ALDH1A3
Aliases	ALDH1A3; Aldehyde Dehydrogenase 1 Family Member A3; Retinaldehyde Dehydrogenase 3; RALDH3; ALDH6; Aldehyde Dehydrogenase 6; Aldehyde Dehydrogenase 1 Family, Member A3; Aldehyde Dehydrogenase Family 1 Member A3; Acetaldehyde Dehydrogenase 6; EC 1.2.1.36; EC 1.2.1; ALDH1A6; RALDH-3; RaLDH3; MCOP8
Immunogen	Recombinant protein of human ALDH1A3

Additional Information

Gene ID	220
Other Names	Retinaldehyde dehydrogenase 3, RALDH-3, RaLDH3, 1.2.1.36, Aldehyde dehydrogenase 6, Aldehyde dehydrogenase family 1 member A3, ALDH1A3, ALDH1A3, ALDH6 {ECO:0000303 PubMed:7698756}

Protein Information

Name	ALDH1A3
Synonyms	ALDH6 {ECO:0000303 PubMed:7698756}
Function	Catalyzes the NAD-dependent oxidation of aldehyde substrates, such as all-trans-retinal and all-trans-13,14-dihydroretinal, to their corresponding carboxylic acids, all-trans-retinoate and all-trans- 13,14-dihydroretinoate, respectively (By similarity) (PubMed: 27759097). High specificity for all-trans-retinal as substrate, can also accept acetaldehyde as substrate in vitro but with lower affinity (PubMed: 27759097). Required for the biosynthesis of normal levels of retinoate in the embryonic ocular and nasal regions; a critical lipid in the embryonic development of the eye and the nasal region (By similarity).
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:Q9JHW9}.
Tissue Location	Expressed at low levels in many tissues and at higher levels in salivary gland,

stomach, and kidney

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