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11-7549: Polyclonal Antibody to ALDH1A1

Clonality: Polyclonal

Application: WB
Reactivity: Human
Gene: ALDH1A1
Gene ID: 216
Uniprot ID: P00352
Format: Purified

Alternative Name: ALDH1A1,ALDC,ALDH1,PUMB1

Isotype: Rabbit IgG

Immunogen Information: A partial length recombinant ALDH1A1 protein (amino acids 284-492) was used as the

immunogen for this antibody.

Description

Aldehyde dehydrogenase 1A1 (ALDH1A1) is a member of a superfamily of detoxification enzymes found in various tissues that participate in the oxidation of both aliphatic and aromatic aldehydes. The human ALDH1A1, which is tetrameric and predominantly of cytosolic origin, functions mainly in acetaldehyde and neurotransmitter metabolism. It is also reported to play a major role in the production of retinoic acid, which is important for gene expression and tissue differentiation, and also in cyclophosphamide detoxification. ALDH1A1 is found in various tissues, including the central nervous system (CNS), with highest levels in the liver. In the brain, ALDH1A1 participates in the metabolism of catecholamines including dopamine (DA) and norepinephrine, and is uniquely expressed in a subset of dopaminergic (DAergic) neurons in the ventral mesencephalon where it converts 3,4-dihydroxyphenylacetaldehyde, a potentially toxic aldehyde, to 3,4-dihydroxyphenylacetic acid, a non toxic metabolite. ALDHA1 has been implicated in the development of alcohol dependence and other alcohol-use disorders, alcohol-induced flushing and sensitivity to alcohol.

Product Info

Amount: 25 μg / 100 μg

Purification: Protein A Chromatography

Content: 25 μg in 50 μl/100 μg in 200 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium

azide is highly toxic.

Storage condition : Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

Western blot analysis: 1-2 ̸µg/ml

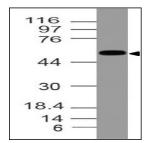


Fig-1: Expression analysis of ALDH1A1. Anti-ALDH1A1 antibody (11-7549) was used at 1 μg/ml on HepG2 lysate.