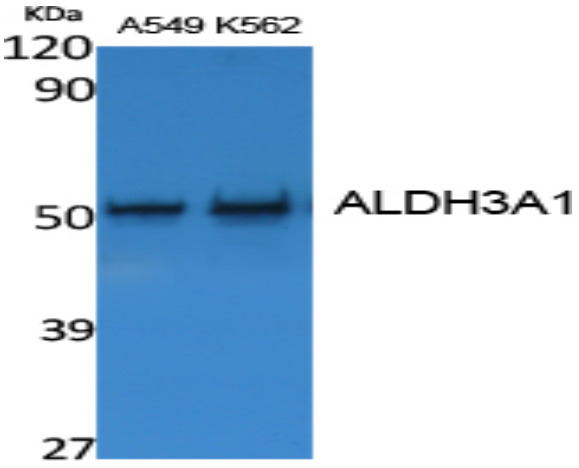
Best Tools for immunology Research

ALDH3A1 Polyclonal Antibody

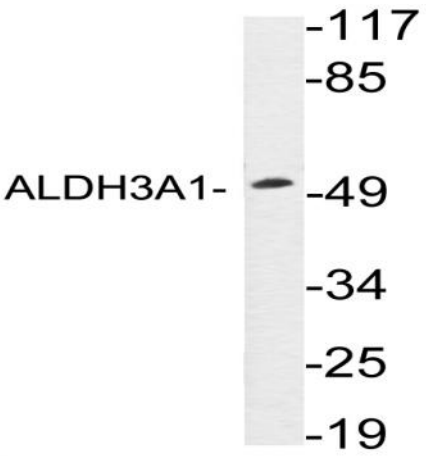
Catalog No :	YT5025
Reactivity :	Human;Rat
Applications :	WB;ELISA
Target :	ALDH3A1
Fields :	>>Glycolysis / Gluconeogenesis;>>Histidine metabolism;>>Tyrosine metabolism;>>Phenylalanine metabolism;>>beta-Alanine metabolism;>>Metabolism of xenobiotics by cytochrome P450;>>Drug metabolism - cytochrome P450;>>Metabolic pathways
Gene Name :	ALDH3A1
Protein Name :	Aldehyde dehydrogenase dimeric NADP-preferring
Human Gene Id :	218
Human Swiss Prot No :	P30838
Mouse Swiss Prot No :	P47739
Rat Gene Id :	25375
Rat Swiss Prot No :	P11883
Immunogen :	The antiserum was produced against synthesized peptide derived from human ALDH3A1. AA range:236-285
Specificity :	ALDH3A1 Polyclonal Antibody detects endogenous levels of ALDH3A1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	50kD
Cell Pathway :	Glycolysis / Gluconeogenesis;Histidine metabolism;Tyrosine metabolism;Phenylalanine metabolism;Metabolism of xenobiotics by cytochrome P450;Drug metabolism;
Background :	Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. The enzyme encoded by this gene forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. It is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Sep 2008],
Function :	catalytic activity:An aldehyde + NAD(P)(+) + H(2)O = an acid + NAD(P)H.,function:ALDHs play a major role in the detoxification of alcohol-derived acetaldehyde. They are involved in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. This protein preferentially oxidizes aromatic aldehyde substrates. It may play a role in the oxidation of toxic aldehydes.,similarity:Belongs to the aldehyde dehydrogenase family.,subunit:Homodimer.,tissue specificity:High levels in stomach, esophagus and lung; low level in the liver and kidney.,
Subcellular Location :	Cytoplasm .
Expression :	High levels in stomach, esophagus and lung; low level in the liver and kidney.
Sort :	1889
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

Products Images



Western Blot analysis of extracts from A549, K562 cells, using ALDH3A1 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Western blot analysis of lysates from A549 cells, using ALDH3A1 antibody.