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[Marker Primary Antibody]

Rabbit Anti-ALDH1/Biotin Conjugated antibody

Catalog Number: SL10162R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-ALDH1/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human ALDH1
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:50-200 ELISA=1:100-1000 IHC-P=1:50-200 IHC-F=1:50-200 ICC=1:50-200 IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat,Cow,Horse,Rabbit,Sheep,Pig)
Background:	background: 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. [provided by RefSeq] **Function:** Binds free retinal and cellular retinol-binding protein-bound retinal. Can convert/oxidize retinaldehyde to retinoic acid. **Subunit:** Homodimer.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

	Subcellular Location: Cytoplasm. **Tissue Specificity:** Expressed in the liver, lung, and testis. Apparently not expressed at detectable levels in kidney, stomach, ovary, heart, and brain. **Similarity:** Belongs to the aldehyde dehydrogenase family. **Database links:** **Entrez Gene:** 216 Human **Entrez Gene:** 11668 Mouse **Entrez Gene:** 24188 Rat **Entrez Gene:** 443343 Sheep Omim: 100640 Human **SwissProt:** P00352 Human **SwissProt:** P24549 Mouse **SwissProt:** P51647 Rat **SwissProt:** P51977 Sheep **Unigene:** 76392 Human **Unigene:** 250866 Mouse **Unigene:** 6132 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.