bs-10162R **[Primary Antibody]**

ALDH1A1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 216 **SWISS:** P00352

Target: ALDH1A1

Immunogen: KLH conjugated synthetic peptide derived from human ALDH1: 201-300/501.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: The protein encoded by this gene belongs to the aldehyde dehydrogenase family. Aldehyde dehydrogenase is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. There are two major aldehyde dehydrogenase isozymes in the liver, cytosolic and mitochondrial, which are encoded by distinct genes, and can be distinguished by their electrophoretic mobility, kinetic properties, and subcellular localization. This gene encodes the cytosolic isozyme. Studies in mice show that through its role in retinol metabolism, this gene may also be involved in the regulation of the metabolic responses to high-fat diet. [provided by RefSeq, Mar 2011].

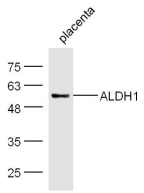
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Pig, Sheep, Cow, Horse)

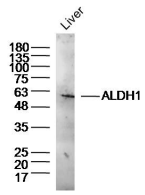
Predicted MW.: 54 kDa

Subcellular Location: Cytoplasm

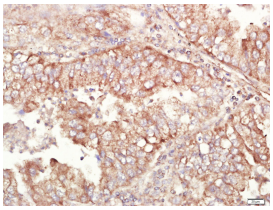
VALIDATION IMAGES



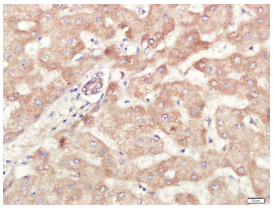
Sample: Placenta (Mouse) Lysate at 40 ug Primary: Anti-ALDH1 (bs-10162R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54 kD Observed band size: 54 kD



Sample: Liver (mouse) Lysate at 40 ug Primary: Anti- ALDH1 (bs-10162R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54 kD Observed band size: 54 kD



Paraformaldehyde-fixed, paraffin embedded (human lung cancer); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ALDH1) Polyclonal Antibody, Unconjugated (bs-10162R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



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SELECTED CITATIONS

- **[IF=43.474]** Mingqian Fang. et al. Lipopolysaccharide-binding protein expression is increased by stress and inhibits monoamine synthesis to promote depressive symptoms. IMMUNITY. 2023 Feb 27 WB ;Mouse. 36854305
- **[IF=8.755]** Sijie Wang. et al. PFKFB4 facilitates palbociclib resistance in oestrogen receptor-positive breast cancer by enhancing stemness. CELL PROLIFERAT. 2022 Sep;:e13337 WB ;Human. 36127291
- **[IF=6.126]** Chih-Wei Chou. et al. Menin and Menin-Associated Proteins Coregulate Cancer Energy Metabolism. Cancers. 2020 Sep;12(9):2715 IF ;Human. 32971831
- **[IF=5.7]** Jinmiao Tian. et al. QPH-FR: A Novel Quinoa Peptide Enhances Chemosensitivity by Targeting Leucine-Rich Repeat-Containing G Protein-Coupled Receptor 5 in Colorectal Cancer. J AGR FOOD CHEM. 2024;XXXX(XXX):XXX-XXX IHC,WB ;Mouse,Human. 39047262
- **[IF=4.74]** Qi et al. Sorting and identification of side population cells in the human cervical cancer cell line HeLa. (2014) Cancer.Cell.Int. 14:3 IHC ;Human. 24418020