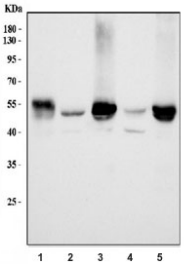
ALDH1B1 Antibody (R32505)

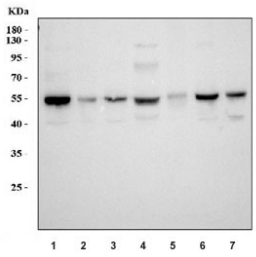
Catalog No.	Formulation	Size
R32505	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

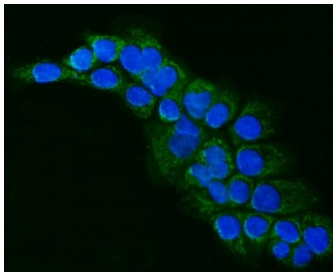
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Monkey
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P30837
Localization	Cytoplasmic, granular
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence (FFPE): 5ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This ALDH1B1 antibody is available for research use only.



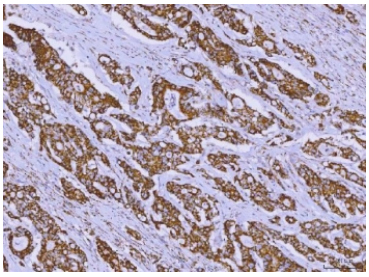
Western blot testing of 1) rat liver, 2) rat testis, 3) rat RH35, 4) mouse brain and 5) mouse liver tissue lysate with ALDH1B1 antibody. Predicted molecular weight ~57 kDa.



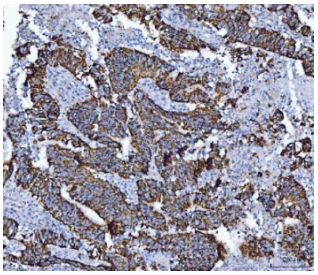
Western blot testing of human 1) HepG2, 2) K562, 3) A431, 4) A549, 5) U-2 OS, 6) HeLa and 7) monkey COS-7 cell lysate with ALDH1B1 antibody. Predicted molecular weight ~57 kDa.



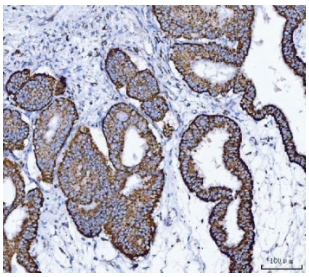
Immunofluorescent staining of FFPE human A431 cells with ALDH1B1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



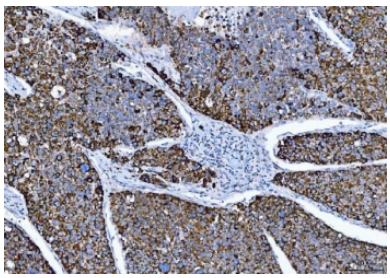
IHC staining of FFPE human colonic adenocarcinoma with ALDH1B1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



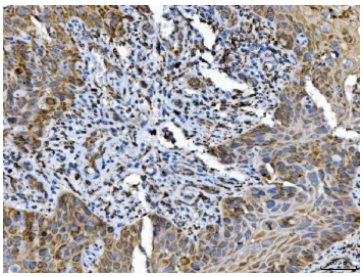
IHC staining of FFPE human colon cancer with ALDH1B1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



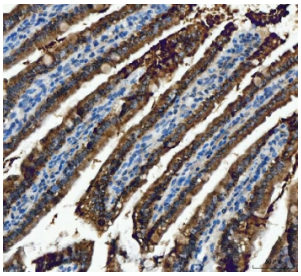
IHC staining of FFPE human endometrial adenocarcinoma with ALDH1B1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



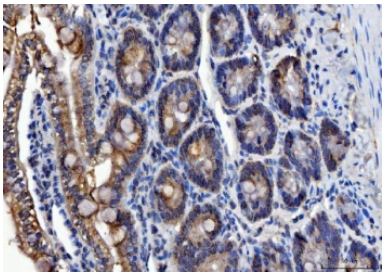
IHC staining of FFPE human hepatocellular carcinoma with ALDH1B1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



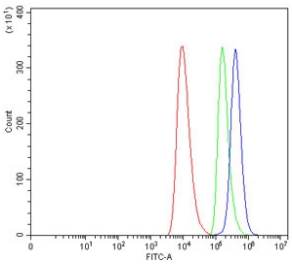
IHC staining of FFPE human laryngeal squamous cell carcinoma with ALDH1B1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE mouse colon with ALDH1B1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat colon with ALDH1B1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Flow cytometry testing of human HEL cells with ALDH1B1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= ALDH1B1 antibody.

Description

Aldehyde dehydrogenase X, mitochondrial is an enzyme that in humans is encoded by the ALDH1B1 gene. This protein belongs to the aldehyde dehydrogenases family of proteins. Aldehyde dehydrogenase is the second enzyme of the major oxidative pathway of alcohol metabolism. This gene does not contain introns in the coding sequence. The variation of this locus may affect the development of alcohol-related problems.

Application Notes

Differences in protocols and secondary/substrate sensitivity may require the ALDH1B1 antibody to be titrated for optimal performance.

Immunogen

Amino acids 116-156 (RVYLASLETLDNGKPFQESYALDLDEVIKVYRYFAGWADKW from the human protein were used as the immunogen for the ALDH1B1 antibody.

Storage

After reconstitution, the ALDH1B1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at

-20oC. Avoid repeated freezing and thawing.

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