For Research Use Only

ALDH1A1 Monoclonal antibody, PBS Only



Purification Method:

Protein A purification

CloneNo.:

1A10A2

Catalog Number:60171-1-PBS

Featured Product

Basic Information

Catalog Number: 60171-1-PBS

GeneID (NCBI): Size: 1 mg/ml Source:

UNIPROT ID: Mouse P00352 Isotype: Full Name: lgG1 aldehyde dehydrogenase 1 family,

Immunogen Catalog Number:

AG8551

member A1 Calculated MW: 501 aa, 55 kDa

GenBank Accession Number:

Observed MW: 52 kDa

BC001505

Applications

Tested Applications: WB,Indirect ELISA,IHC,IF,FC **Species Specificity:**

human, mouse, rat, pig

Background Information

ALDH1A1(Aldehyde dehydrogenase family 1 member A1), also named as ALDC, ALDH1 and PUMB1, belongs to the $aldehyde\ dehydrogenase\ family.\ The\ ALDH1A1\ gene\ encodes\ a\ liver\ cytosolic\ is oform\ of\ acetal dehyde$ dehydrogenase, an enzyme involved in the major pathway of alcohol metabolism after alcohol dehydrogenase. ALDH1A1 plays a critical role in protection against oxidative stress-induced cytotoxicity in lens epithelial cells(PMID:19296407). And it is important for multiple biological activities including drug resistance, cell differentiation, and oxidative stress response(PMID:19025616). As a novel cancer stem cell marker, ALDH1A1 can be $used for tumors whose corresponding normal \ tissues \ express \ ALDH1A1 \ in \ relatively \ restricted \ or \ limited \ levels \ such \ and \ relatively \ restricted \ or \ limited \ levels \ such \ and \ relatively \ restricted \ or \ limited \ levels \ such \ and \ relatively \ restricted \ or \ limited \ levels \ such \ and \ relatively \ restricted \ or \ limited \ levels \ such \ and \ relatively \ restricted \ or \ limited \ levels \ such \ and \ relatively \ restricted \ or \ limited \ levels \ such \ and \ relatively \ restricted \ or \ limited \ levels \ such \ and \ relatively \ restricted \ or \ limited \ levels \ such \ and \ relatively \ restricted \ or \ limited \ levels \ relatively \ restricted \ or \ limited \ relatively \ restricted \ restricted \ relatively \ restricted \ restricted \ relatively \ restricted \ restri$ as breast, lung, ovarian or colon cancer(PMID: 20422001).

Storage

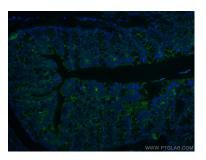
Storage: Store at -80°C. Storage Buffer: PBS Only

For technical support and original validation data for this product please contact: T: 4006900926

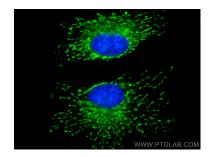
E: Proteintech-CN@ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

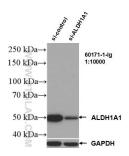
Selected Validation Data



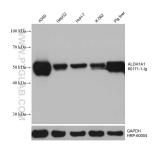
Immunofluorescent analysis of (4% PFA) fixed mouse colon tissue using 60171-1-1g (ALDH1A1 antibody), at dilution of 1:100 and Coralite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 60171-1-PBS in a different storage buffer formulation



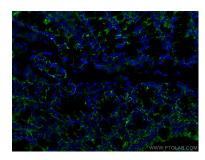
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using ALDH1A1 antibody (60171-1-1g, Clone: 1A10A2) at dilution of 1:800 and Coralite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+1). This data was developed using the same antibody clone with 60171-1-PBS in a different storage buffer formulation.



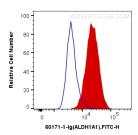
WB result of ALDH1A1 antibody (60171-1-lg; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ALDH1A1 transfected K-562 cells. This data was developed using the same antibody clone with 60171-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 60171-1-1g (ALDH1A1 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control. This data was developed using the same antibody clone with 60171-1-PBS in a different storage buffer formulation.



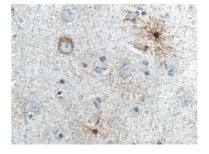
Immunofluorescent analysis of (4% PFA) fixed mouse colon tissue using 60171-1-1g (ALDH1A1 antibody), at dilution of 1:100 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 60171-1-PBS in a different storage buffer formulation.



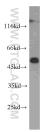
1X10^6 HepG2 cells were intracellularly stained with 0.2 ug Anti-Human ALDH1A1 (60171-1-1g, Clone:1A10A2) and Coralite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.2 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 60171-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffinembedded human brain tissue slide using 60171-1 Ig (ALDH1A1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0). This data was developed using the same antibody clone with 60171-1-PBS in a different storage buffer



Immunohistochemical analysis of paraffinembedded human brain tissue slide using 60171-1-1g (ALDH1A1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieved with Sodium Citrate buffer (pH 6.0). This data was developed using the same antibody clone with 60171-1-PBS in a different storage buffer



MCF7 cells were subjected to SDS PAGE followed by western blot with 60171-1-1g (ALDH1A1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 60171-1-PBS in a different storage buffer formulation.