

For Research Use Only

ALDH1L1 Polyclonal antibody

Catalog Number: 17390-1-AP **7 Publications**



Basic Information

| | | |
|---|---|--|
| Catalog Number: 17390-1-AP | GenBank Accession Number: BC027241 | Purification Method: Antigen affinity purification |
| Size: 300 µg/ml | GeneID (NCBI): 10840 | Recommended Dilutions: WB 1:2000-1:10000 |
| Source: Rabbit | UNIPROT ID: O75891 | IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate |
| Isotype: IgG | Full Name: aldehyde dehydrogenase 1 family, member L1 | IHC 1:100-1:400 |
| Immunogen Catalog Number: AG11285 | Calculated MW: 99 kDa | IF 1:50-1:500 |
| | Observed MW: 100 kDa | |

Applications

| | |
|---|---|
| Tested Applications: IF, IHC, IP, WB, ELISA | Positive Controls: |
| Cited Applications: IF, IHC, WB | WB: mouse liver tissue, mouse liver, rat liver |
| Species Specificity: human, mouse, rat | IP: mouse liver tissue, |
| Cited Species: human, mouse | IHC: human gliomas tissue, mouse brain tissue |
| | IF: mouse brain tissue, |

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Aldehyde dehydrogenase 1 family member L1 (ALDH1L1), belongs to the aldehyde dehydrogenase family of proteins and is responsible for formate oxidation in vivo. Loss of ALDH1L1 is associated with decreased apoptosis, increased cell motility, and cancer progression. ALDH1L1 catalyzes the conversion of 10-formyltetrahydrofolate, nicotinamide adenine dinucleotide phosphate (NADP⁺), and water to tetrahydrofolate, NADPH, and carbon dioxide. ALDH1L1 has some isoforms with MW of 99, 88 and 55 kDa.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|--------------------|-------------|
| Li Cui | 34533844 | J Pineal Res | WB |
| Masayoshi Kano | 33298969 | NPJ Parkinsons Dis | IHC,WB |
| Hao Qian | 32581380 | Nature | IF |

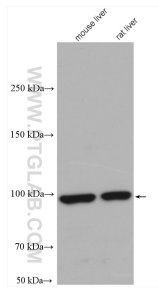
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

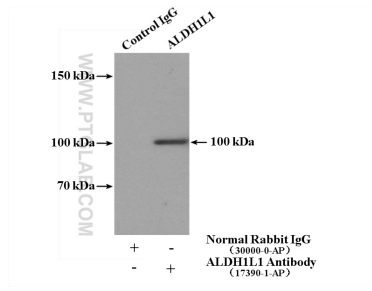
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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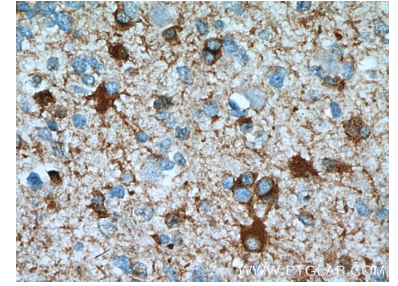
Selected Validation Data



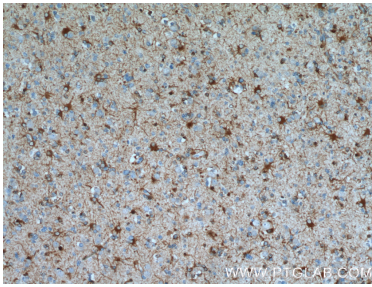
mouse liver tissue were subjected to SDS PAGE followed by western blot with 17390-1-AP (ALDH1L1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



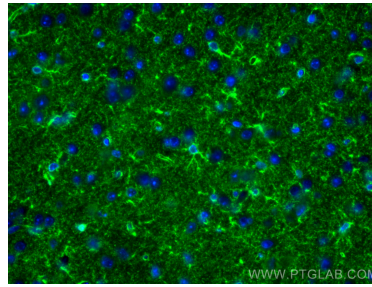
IP result of anti-ALDH1L1 (IP:17390-1-AP, 4ug; Detection:17390-1-AP 1:500) with mouse liver tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 17390-1-AP (ALDH1L1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 17390-1-AP (ALDH1L1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using ALDH1L1 antibody (17390-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).