

For Research Use Only

# Acetylcholinesterase Polyclonal antibody



Catalog Number: 17975-1-AP **7 Publications**

## Basic Information

|  |  |  |
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| <b>Catalog Number:</b><br>17975-1-AP   | <b>GenBank Accession Number:</b><br>BC094752               | <b>Purification Method:</b><br>Antigen affinity purification       |
| <b>Size:</b><br>150ul , Concentration: 167 µg/ml by Nanodrop and 167 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>43                                | <b>Recommended Dilutions:</b><br>WB 1:500-1:1000<br>IHC 1:50-1:500 |
| <b>Source:</b><br>Rabbit   | <b>Full Name:</b><br>acetylcholinesterase (Yt blood group) |  |
| <b>Isotype:</b><br>IgG   | <b>Calculated MW:</b><br>614aa,68 kDa; 640aa,71 kDa        |  |
| <b>Immunogen Catalog Number:</b><br>AG12146  | <b>Observed MW:</b><br>66-72 kDa                           |  |

## Applications

|  |   |
|--|---|
| <b>Tested Applications:</b><br>IHC, WB, ELISA    | <b>Positive Controls:</b><br>WB : mouse liver tissue, HEK-293 cells |
| <b>Cited Applications:</b><br>IHC, WB            | <b>IHC :</b> human liver tissue,                                    |
| <b>Species Specificity:</b><br>human, mouse, rat |   |
| <b>Cited Species:</b><br>mouse, rat              |   |

**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

The classical role of acetylcholinesterase (AChE) is to terminate cholinergic neurotransmission by rapid hydrolysis of the neurotransmitter acetylcholine (ACh) at cholinergic synapses and neuromuscular junctions (PMID:20054652). AChE activity is significantly lower in aspirates from squamous cell carcinomas and the molecular distribution of AChE in both bronchial cells and fluids consisted of amphiphilic monomers and dimers (PMID:18211261). It has 4 isoforms produced by alternative splicing.

## Notable Publications

| Author     | Pubmed ID | Journal           | Application |
|------------|-----------|-------------------|-------------|
| Yinrui Guo | 34045460  | Transl Psychiatry | WB          |
| Yang Yang  | 34084135  | Front Pharmacol   | IHC         |
| Xiao Wu    | 33795529  | Aging (Albany NY) | WB          |

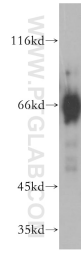
## Storage

**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

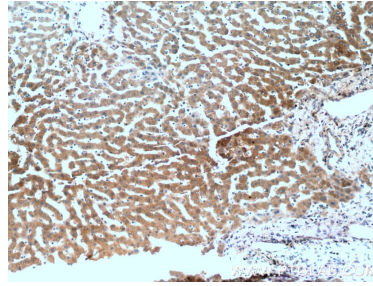
For technical support and original validation data for this product please contact:  
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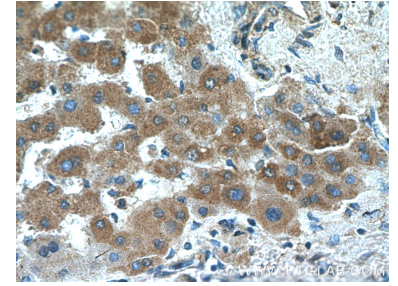
## Selected Validation Data



mouse liver tissue were subjected to SDS PAGE followed by western blot with 17975-1-AP (Acetylcholinesterase antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 17975-1-AP (Acetylcholinesterase antibody at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 17975-1-AP (Acetylcholinesterase antibody at dilution of 1:200 (under 40x lens).