

## Product datasheet for **TA350620**

### Acetylcholinesterase (ACHE) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Raji cells IHC: 25-100 Positive control: Human liver cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of human ACHE
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	68 kDa
Gene Name:	acetylcholinesterase (Cartwright blood group)
Database Link:	<a href="#">NP_056646</a> <a href="#">Entrez Gene 11423 Mouse</a> <a href="#">Entrez Gene 83817 Rat</a> <a href="#">Entrez Gene 43 Human</a> <a href="#">P22303</a>



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**Background:**

Acetylcholinesterase hydrolyzes the neurotransmitter, acetylcholine at neuromuscular junctions and brain cholinergic synapses, and thus terminates signal transmission. It is also found on the red blood cell membranes, where it constitutes the Yt blood group antigen. Acetylcholinesterase exists in multiple molecular forms which possess similar catalytic properties, but differ in their oligomeric assembly and mode of cell attachment to the cell surface. It is encoded by the single ACHE gene, and the structural diversity in the gene products arises from alternative mRNA splicing, and post-translational associations of catalytic and structural subunits. The major form of acetylcholinesterase found in brain, muscle and other tissues is the hydrophilic species, which forms disulfide-linked oligomers with collagenous, or lipid-containing structural subunits.

**Synonyms:**

ACEE; ARACHE; N-ACHE; YT

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Glycerophospholipid metabolism

**Product images:**

Gel: 8%SDS-PAGE

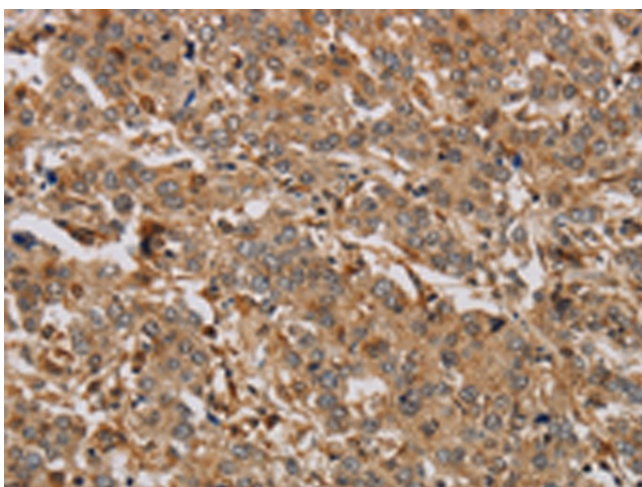
Lysate: 40 µg

Lane: Raji cells

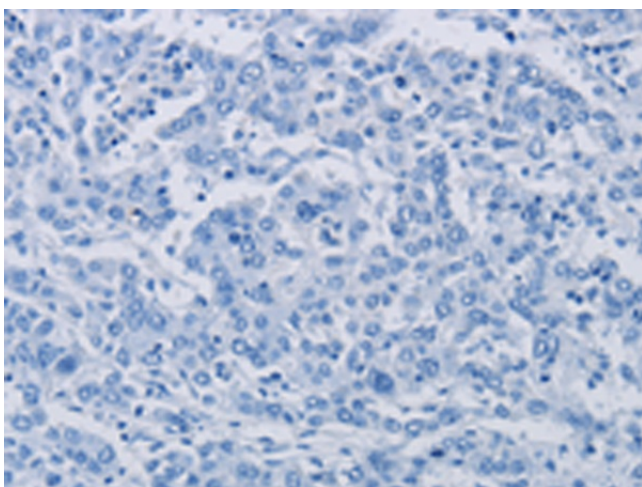
Primary antibody: TA350620 (ACHE Antibody) at dilution 1/250

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

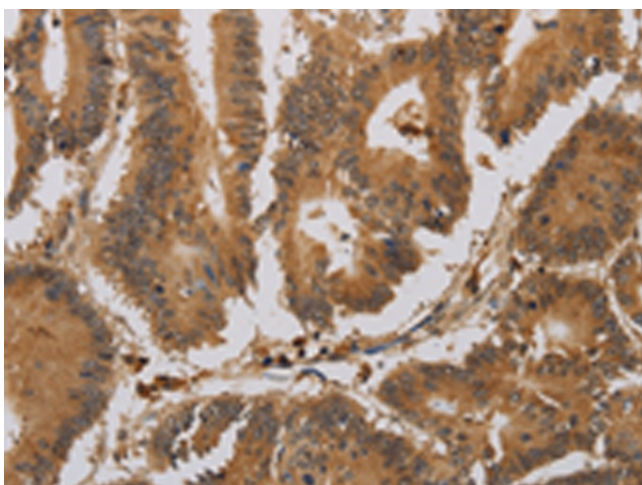
Exposure time: 2 minutes



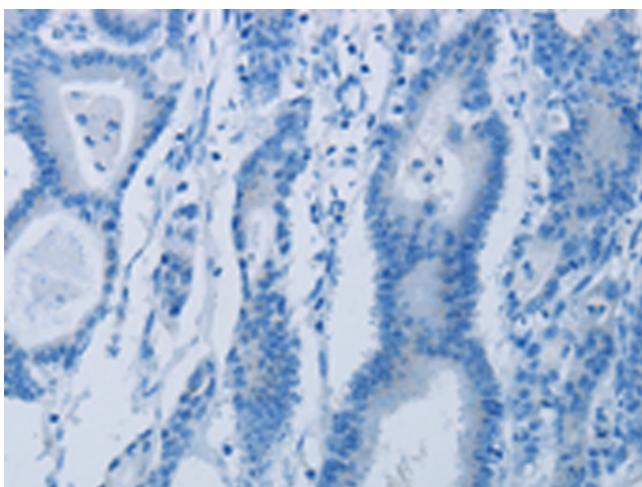
Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA350620 (ACHE Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA350620 (ACHE Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA350620 (ACHE Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA350620 (ACHE Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: ×200)