

**Anti-ACETYLCHOLINESTERASE (GOAT) Antibody Peroxidase Conjugated**  
**Anti-Acetylcholinesterase Antibody Peroxidase Conjugated**  
**Catalog # ASR4002****Specification****Anti-ACETYLCHOLINESTERASE (GOAT) Antibody Peroxidase Conjugated - Product Information**

Host	Goat
Conjugate	Peroxidase (Horseradish)
Target Species	Bovine
Reactivity	Bovine
Clonality	Polyclonal
Application	WB, E, IP, I, LCI
Application Note	Anti-Acetylcholinesterase (Bovine Erythrocytes) antibody has been tested by western blot and is suitable to be assayed against 1.0 µg of Acetylcholinesterase [Bovine Erythrocytes] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 of the reconstitution concentration is suggested for this product.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Acetylcholinesterase [Bovine Erythrocytes]
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!

**Anti-ACETYLCHOLINESTERASE (GOAT) Antibody Peroxidase Conjugated - Additional Information****Gene ID** 540446**Other Names**  
540446**Purity**

Anti-Acetylcholinesterase (Bovine Erythrocytes) antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase,

anti-Goat Serum as well as purified and partially purified Acetylcholinesterase [Bovine Erythrocytes]. Cross reactivity against Acetylcholinesterase from other sources is unknown.

#### **Storage Condition**

Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

#### **Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

### **Anti-ACETYLCHOLINESTERASE (GOAT) Antibody Peroxidase Conjugated - Protein Information**

**Name** ACHE

#### **Function**

Terminates signal transduction at the neuromuscular junction by rapid hydrolysis of the acetylcholine released into the synaptic cleft.

#### **Cellular Location**

Synapse. Secreted. Cell membrane; Peripheral membrane protein

### **Anti-ACETYLCHOLINESTERASE (GOAT) Antibody Peroxidase Conjugated - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Anti-ACETYLCHOLINESTERASE (GOAT) Antibody Peroxidase Conjugated - Images**

### **Anti-ACETYLCHOLINESTERASE (GOAT) Antibody Peroxidase Conjugated - Background**

Acetylcholinesterase, or AChE, is an important protease that terminates the transmission of the neurotransmitter, acetylcholine, by hydrolysis. Hydrolysis by AChE on ACh prevents excessive neural firing between adjacent nerves. Horse Radish Peroxidase (HRP) is an enzyme that utilizes organic peroxide compounds as electron donors. Naturally provides protection for plants against pathogens, but can be utilized in molecular biology to convert various substrates to detectable compounds (such as in Western Blotting and ELISAs). Anti-Acetylcholinesterase (Bovine Erythrocytes) antibody is ideal for investigators in Signal Transduction, Cell Signaling, Cardiovascular, and Immunology research.