

Anti-CATALASE (Bovine Liver) (RABBIT) Antibody Peroxidase Conjugated
Catalase Antibody Peroxidase Conjugated
Catalog # ASR4661**Specification****Anti-CATALASE (Bovine Liver) (RABBIT) Antibody Peroxidase Conjugated - Product Information**

Host	Rabbit
Conjugate	Peroxidase (Horseradish)
Target Species	Bovine
Reactivity	Bovine
Clonality	Polyclonal
Application	WB, E, I, LCI
Application Note	Anti-Catalase Peroxidase Conjugated Antibody has been tested by ELISA and western blot. This product is assayed against 1.0 ug of Catalase [Bovine Liver] 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 1:10,000 to 1:40,000 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	Catalase [Bovine Liver]
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-CATALASE (Bovine Liver) (RABBIT) Antibody Peroxidase Conjugated - Additional Information**Gene ID** 531682**Other Names**
531682**Purity**

Catalase 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-Rabbit Serum as well as purified and partially purified Catalase [Bovine Liver]. Cross reactivity against Catalase from other tissues and species

may occur but have not been specifically determined.

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-CATALASE (Bovine Liver) (RABBIT) Antibody Peroxidase Conjugated - Protein Information

Name CAT

Function

Catalyzes the degradation of hydrogen peroxide (H₂O₂) generated by peroxisomal oxidases to water and oxygen, thereby protecting cells from the toxic effects of hydrogen peroxide (PubMed:10691967). Promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells (PubMed:10691967).

Cellular Location

Peroxisome matrix.

Anti-CATALASE (Bovine Liver) (RABBIT) 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-CATALASE (Bovine Liver) (RABBIT) Antibody Peroxidase Conjugated - Images**Anti-CATALASE (Bovine Liver) (RABBIT) Antibody Peroxidase Conjugated - Background**

Catalase is found in nearly all living organisms exposed to oxygen. It catalyzes the decomposition of hydrogen peroxide to water and oxygen. It is a very important enzyme in protecting the cell from oxidative damage by reactive oxygen species.