

Anti-CATALASE (Bovine Liver) (RABBIT) Antibody (BULK ORDER)
Catalase Antibody
Catalog # ASR5934**Specification****Anti-CATALASE (Bovine Liver) (RABBIT) Antibody (BULK ORDER) - Product Information**

Host	Rabbit
Conjugate	Unconjugated
Target Species	Bovine
Reactivity	Human
Clonality	Polyclonal
Application	WB, E, I, LCI
Application Note	Anti-Catalase has been tested by ELISA, western blot, and immunohistochemistry. Specific conditions for reactivity should be optimized by the end user.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Anti-Catalase Antibody was produced by repeated immunizations with bovine liver catalase protein.
Reconstitution Volume	5.0 mL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

Anti-CATALASE (Bovine Liver) (RABBIT) Antibody (BULK ORDER) - Additional Information**Gene ID** 531682**Other Names**
531682**Purity**

Anti-Catalase 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-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 (BULK ORDER) - 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).

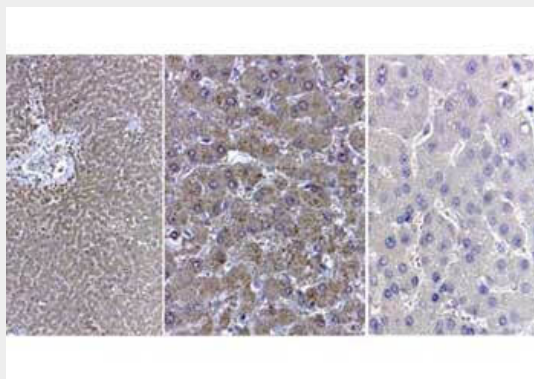
Cellular Location

Peroxisome matrix.

Anti-CATALASE (Bovine Liver) (RABBIT) Antibody (BULK ORDER) - 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 (BULK ORDER) - Images

Immunohistochemistry of Catalase antibody. Tissue: human liver. Fixation: formalin fixed paraffin embedded. Antigen retrieval: user optimized. Primary antibody: Catalase antibody 1:400. Secondary antibody: Peroxidase goat anti-rabbit at 1:10,000 for 45 min at RT. Localization: nuclear and occasionally cytoplasmic. Staining: Liver parenchyma: portal triads affected by moderate lymphoplasmacytic inflammation with minimal proliferation of bile ductules. Not obvious interstitial fibrosis. Cytoplasm of hepatocytes, diffuse positivity for the antibody anti-catalase. Neg Ctr (far right) normal rabbit IgG with Human liver. pH 6.2 40X

Anti-CATALASE (Bovine Liver) (RABBIT) Antibody (BULK ORDER) - Background

Anti-Catalase Antibody detects catalase. Catalase is a common enzyme found in nearly all living organisms exposed to oxygen. It catalyzes the decomposition of hydrogen peroxide to water and oxygen. Catalase is necessary in cells to protect them from the toxic effects of hydrogen peroxide and to promote growth of cells. Anti-Catalase antibody is ideal for investigators involved in Cell Signaling, Neuroscience and Signal Transduction research.