

Datasheet for ABIN934518 **Catalase Protein (CAT)**



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Overview

Quantity: 1 mg

Target: Catalase (CAT)

Origin: Human

Source: Human

Protein Type: Native

Product Details

Characteristics: Purified native Human Catalase protein

Protein Source: Human whole blood

Target Details

Target: Catalase (CAT)

Alternative Name: Catalase ([CAT Products](#))

Background: Catalase is a common enzyme found in nearly all living organisms that are exposed to oxygen, where it functions to catalyze the decomposition of hydrogen peroxide to water and oxygen.

Catalase is a tetramer of four polypeptide chains, each over 500 amino acids long. It contains four porphyrin heme (iron) groups that allow the enzyme to react with the hydrogen peroxide.

The optimum pH for human catalase is approximately 7.

Description: Human whole blood.

Alternative Names: CAT antibody, MGC138422 antibody, MGC138424 antibody, Cs1 antibody,

Cas 1 antibody

Molecular Weight: 244 kDa

Target Details

Pathways: [Cellular Glucan Metabolic Process](#), [Cell RedoxHomeostasis](#), [Photoperiodism](#)

Application Details

Application Notes: Each Investigator should determine their own optimal working dilution for specific applications.

Restrictions: For Research Use only

Handling

Buffer: Frozen in 50 mM Tris buffer, pH 8.0

Precaution of Use: Donor samples were tested and found to be negative for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2. Nonetheless caution should be used when handling this material as there is a margin of error in all tests.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -80 °C

Storage Comment: Aliquot and store at -70 °C or lower.