

# CoraLite®594-conjugated Catalase Monoclonal antibody

Catalog Number: **CL594-66765**

## Basic Information

**Catalog Number:**

CL594-66765

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG16916

**GenBank Accession Number:**

BC112219

**GeneID (NCBI):**

847

**UNIPROT ID:**

P04040

**Full Name:**

catalase

**Calculated MW:**

60 kDa

**Observed MW:**

60 kDa

**Purification Method:**

Protein G purification

**CloneNo.:**

1F8D7

**Excitation/Emission maxima wavelengths:**

588 nm / 604 nm

## Applications

**Tested Applications:**

FC (Intra)

**Species Specificity:**

Human, Mouse, Rat, Pig

## Background Information

Catalase belongs to the catalase family. CAT occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide. CAT promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells. CAT catalyzes the reaction:  $2 \text{H}_2\text{O}_2 = \text{O}_2 + 2 \text{H}_2\text{O}$ . Defects in CAT are the cause of acatalasia (ACATLAS) which also known as acatalasemia.

## Storage

**Storage:**

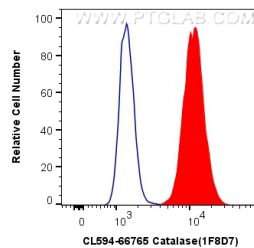
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

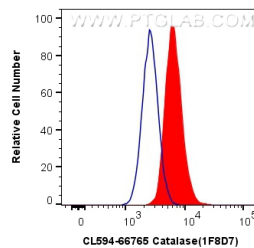
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.8 ug CoraLite®594 Anti-Human Catalase (CL594-66765, Clone:1F8D7) (red), or 0.8 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Intracellular Staining Permeabilization Wash Buffer.



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.4 ug CoraLite®594 Anti-Human Catalase (CL594-66765, Clone:1F8D7) (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).