

**Catalase, Human Erythrocytes recombinant protein**  
**H<sub>2</sub>O<sub>2</sub>:H<sub>2</sub>O<sub>2</sub> oxidoreductase**  
**Catalog # PBV10369r****Specification**

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**Catalase, Human Erythrocytes recombinant protein - Product info**

Primary Accession [P04040](#)  
Calculated MW **244.0 kDa** KDa

**Catalase, Human Erythrocytes recombinant protein - Additional Info**

Gene ID **847**  
Gene Symbol **CAT**  
**Other Names**  
H<sub>2</sub>O<sub>2</sub>:H<sub>2</sub>O<sub>2</sub> oxidoreductase

Source **Human Erythrocyte**  
Assay&Purity **SDS-PAGE; ≥95%**  
Assay2&Purity2 **HPLC;**  
Recombinant **No**  
**Format**  
Liquid

**Storage**  
-70°C; Frozen in 50 mM Tris-HCl, pH 8.0

**Catalase, Human Erythrocytes recombinant protein - 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](#)

**Catalase, Human Erythrocytes recombinant protein - Images****Catalase, Human Erythrocytes recombinant protein - Background**

Composed of four identical subunits each with a molecular weight of 59,700. Catalyzes the reaction 2H<sub>2</sub>O<sub>2</sub> to H<sub>2</sub>O+O<sub>2</sub>. Catalase, along with the superoxides dismutase and glutathione peroxidase, controls the levels of oxygen-derived free radicals in mammalian cells, and together may function as a somatic oxidant defense.

**Catalase, Human Erythrocytes recombinant protein - References**

Quan F.,et al.Nucleic Acids Res. 14:5321-5335(1986).  
Bell G.I.,et al.Nucleic Acids Res. 14:5561-5562(1986).  
Jin L.H.,et al.Free Radic. Biol. Med. 31:1509-1519(2001).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
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