

Recombinant Catalase Monoclonal Antibody

catalog number: AN301085L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

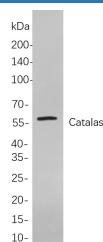
| | |
|--------------|---|
| Reactivity | Human;Mouse;Rat |
| Immunogen | Recombinant Human Catalase protein |
| Host | Rabbit |
| Isotype | IgG,κ |
| Clone | B840 |
| Purification | Protein A |
| Buffer | PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant. |

Applications

Recommended Dilution

| | |
|-------|--------------|
| IHC | 1:200-1000 |
| WB | 1:1000-5000 |
| IF | 1:200-1000 |
| ELISA | 1:5000-20000 |

Data



Western Blot with Recombinant Catalase Monoclonal Antibody at dilution of 1:1000 dilution. Lane A: HeLa cells.

Immunohistochemistry of paraffin-embedded human brain tissue using Recombinant Catalase Monoclonal Antibody at dilution of 1:200.

Observed-MW:60 kDa

Calculated-MW:60 kDa

Preparation & Storage

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

Background

This gene encodes catalase, a key antioxidant enzyme in the bodies defense against oxidative stress. Catalase is a heme enzyme that is present in the peroxisome of nearly all aerobic cells. Catalase converts the reactive oxygen species hydrogen peroxide to water and oxygen and thereby mitigates the toxic effects of hydrogen peroxide. Oxidative stress is hypothesized to play a role in the development of many chronic or late-onset diseases such as diabetes, asthma, Alzheimer's disease, systemic lupus erythematosus, rheumatoid arthritis, and cancers.

Polymorphisms in this gene have been associated with decreases in catalase activity but, to date, acatalasemia is the only disease known to be caused by this gene.

For Research Use Only

Toll-free: 1-888-852-8623

Web: www.elabscience.com

Tel: 1-832-243-6086

Email: techsupport@elabscience.com

Fax: 1-832-243-6017

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