

ARG42752 anti-Catalase antibody

Package: 100 µl
Store at: -20°C

Summary

| | |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes Catalase |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | Catalase |
| Species | Human |
| Immunogen | Recombinant fusion protein corresponding to aa. 1-225 of Human Catalase (NP_001743.1). |
| Conjugation | Un-conjugated |
| Alternate Names | Catalase; EC 1.11.1.6 |

Application Instructions

| | | |
|-------------------|--|-----------------|
| Application table | Application | Dilution |
| | WB | 1:1000 - 1:3000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | HeLa | |
| Observed Size | ~ 62 kDa | |

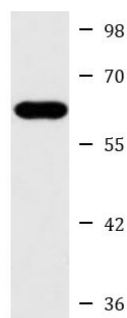
Properties

| | |
|---------------------|---|
| Form | Liquid |
| Purification | Affinity purified. |
| Buffer | PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

| | |
|-----------------------|--|
| Gene Symbol | CAT |
| Gene Full Name | catalase |
| 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. [provided by RefSeq, Oct 2009] |
| Function | Occurs in almost all aerobically respiring organisms and serves to protect cells from the toxic effects of hydrogen peroxide. Promotes growth of cells including T-cells, B-cells, myeloid leukemia cells, melanoma cells, mastocytoma cells and normal and transformed fibroblast cells. [UniProt] |
| Calculated Mw | 60 kDa |
| PTM | The N-terminus is blocked. [UniProt] |
| Cellular Localization | Peroxisome. [UniProt] |

Images



HeLa

ARG42752 anti-Catalase antibody WB image

Western blot: 25 µg of HeLa cell lysate stained with ARG42752 anti-Catalase antibody at 1:3000 dilution.