

ARG55839 anti-Peroxiredoxin 2 antibody

Package: 100 µl
Store at: -20°C

Summary

| | |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes Peroxiredoxin 2 |
| Tested Reactivity | Hu, Ms, Rat |
| Predict Reactivity | Bov, Hm, Mk |
| Tested Application | ICC/IF, IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | Peroxiredoxin 2 |
| Species | Human |
| Immunogen | KLH-conjugated synthetic peptide corresponding to aa. 169-198 (C-terminus) of Human Peroxiredoxin 2. |
| Conjugation | Un-conjugated |
| Alternate Names | EC 1.11.1.15; TPX1; TDPX1; HEL-S-2a; PTX1; Thiol-specific antioxidant protein; PRX2; TSA; Peroxiredoxin-2; PRP; Thioredoxin-dependent peroxide reductase 1; NKEF-B; NKEFB; Natural killer cell-enhancing factor B; Thioredoxin peroxidase 1; PRXII |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|--------------|
| | ICC/IF | 1:10 - 1:50 |
| | IHC-P | 1:50 - 1:100 |
| | WB | 1:1000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | Mouse heart | |

Properties

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|---------------------|---|
| Form | Liquid |
| Purification | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| Buffer | PBS and 0.09% (W/V) Sodium azide |
| Preservative | 0.09% (W/V) Sodium azide |
| 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 or below. 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.

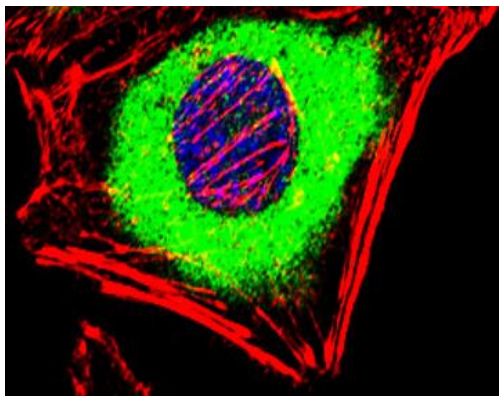
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

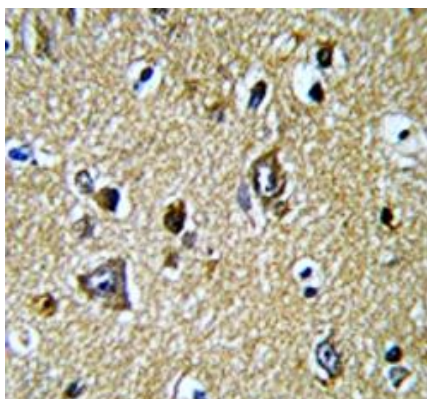
| | |
|-----------------------|---|
| Gene Symbol | PRDX2 |
| Gene Full Name | peroxiredoxin 2 |
| Background | This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein plays an antioxidant protective role in cells, and it may contribute to the antiviral activity of CD8(+) T-cells. The crystal structure of this protein has been resolved to 2.7 angstroms. This protein prevents hemolytic anemia from oxidative stress by stabilizing hemoglobin, thus making this gene a therapeutic target for patients with hemolytic anemia. This protein may have a proliferative effect and play a role in cancer development or progression. Related pseudogenes have been identified on chromosomes 5, 6, 10 and 13. [provided by RefSeq, Mar 2013] |
| Function | Involved in redox regulation of the cell. Reduces peroxides with reducing equivalents provided through the thioredoxin system. It is not able to receive electrons from glutaredoxin. May play an important role in eliminating peroxides generated during metabolism. Might participate in the signaling cascades of growth factors and tumor necrosis factor-alpha by regulating the intracellular concentrations of H(2)O(2). [UniProt] |
| Calculated Mw | 22 kDa |
| Cellular Localization | Cytoplasm. |

Images



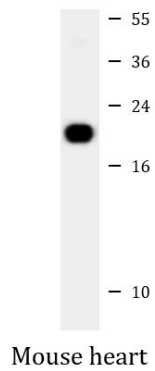
ARG55839 anti-Peroxiredoxin 2 antibody ICC/IF image

Immunofluorescence: HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then stained with ARG55839 anti-Peroxiredoxin 2 antibody (green) at 1:25 dilution, 1 hour at 37°C. Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/ml, 1 hour at 37°C). DAPI (blue) for nuclear staining.



ARG55839 anti-Peroxiredoxin 2 antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human brain tissue stained with ARG55839 anti-Peroxiredoxin 2 antibody.



ARG55839 anti-Peroxiredoxin 2 antibody WB image

Western blot: 35 µg of Mouse heart lysate stained with ARG55839 anti-Peroxiredoxin 2 antibody at 1:1000 dilution.