

## ARG59417 anti-Peroxiredoxin 5 antibody

Package: 100 µl  
Store at: -20°C

### Summary

|                     |  |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes Peroxiredoxin 5  |
| Tested Reactivity   | Hu, Ms, Rat  |
| Tested Application  | ICC/IF, WB   |
| Host                | Rabbit   |
| Clonality           | Polyclonal   |
| Isotype             | IgG  |
| Target Name         | Peroxiredoxin 5  |
| Species             | Human  |
| Immunogen           | Recombinant fusion protein corresponding to aa. 53-214 of Human Peroxiredoxin 5 (NP_036226.1).   |
| Conjugation         | Un-conjugated  |
| Alternate Names     | PMP20; EC 1.11.1.15; Thioredoxin peroxidase PMP20; ACR1; Prx-V; PLP; PRXV; PRDX6; HEL-S-55; B166; Thioredoxin reductase; Peroxiredoxin-5, mitochondrial; AOEB166; Peroxiredoxin V; SBB110; prx-V; Antioxidant enzyme B166; Alu corepressor 1; TPx type VI; Peroxisomal antioxidant enzyme; Liver tissue 2D-page spot 71B |

### Application Instructions

| Application table | Application  | Dilution       |
|-------------------|--|----------------|
|                   | ICC/IF   | 1:20 - 1:50    |
|                   | WB   | 1:500 - 1:2000 |
| Application Note  | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                |
| Positive Control  | Rat brain, HepG2 and HeLa  |                |
| Observed Size     | 15 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. |

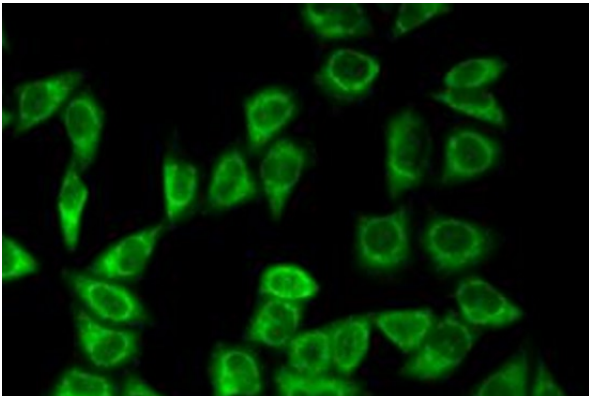
Note

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

## Bioinformation

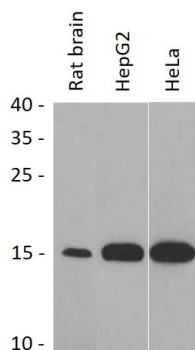
|                       |   |
|-----------------------|---|
| Gene Symbol           | PRDX5   |
| Gene Full Name        | peroxiredoxin 5   |
| Background            | This gene encodes a member of the peroxiredoxin family of antioxidant enzymes, which reduce hydrogen peroxide and alkyl hydroperoxides. The encoded protein may play an antioxidant protective role in different tissues under normal conditions and during inflammatory processes. This protein interacts with peroxisome receptor 1. The crystal structure of this protein in its reduced form has been resolved to 1.5 angstrom resolution. This gene uses alternate in-frame translation initiation sites to generate mitochondrial or peroxisomal/cytoplasmic forms. Three transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008] |
| Function              | Reduces hydrogen peroxide and alkyl hydroperoxides with reducing equivalents provided through the thioredoxin system. Involved in intracellular redox signaling. [UniProt]  |
| Calculated Mw         | 22 kDa  |
| Cellular Localization | Isoform Mitochondrial: Mitochondrion. Isoform Cytoplasmic+peroxisomal: Cytoplasm. Peroxisome matrix. Note=Imported into peroxisomes via peroxisomal targeting signal 1 receptor PEX5. [UniProt]   |

## Images



ARG59417 anti-Peroxiredoxin 5 antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG59417 anti-Peroxiredoxin 5 antibody (green).



ARG59417 anti-Peroxiredoxin 5 antibody WB image

Western blot: 25 µg of Rat brain, HepG2 and HeLa cell lysate stained with ARG59417 anti-Peroxiredoxin 5 antibody at 1:1000 dilution.