# ARG57750
# anti-SIRT3 antibody

Package: 100 µl
Store at: -20°C

## Summary

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|---|---|
| Product Description | Rabbit Polyclonal antibody recognizes SIRT3 |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | ICC/IF, IHC-P, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | SIRT3 |
| Species | Human |
| Immunogen | Synthetic peptide from Human SIRT3. |
| Conjugation | Un-conjugated |
| Alternate Names | NAD-dependent protein deacetylase sirtuin-3, mitochondrial; SIR2L3; hSIRT3; EC 3.5.1.-; Regulatory protein SIR2 homolog 3; SIR2-like protein 3 |

## Application Instructions

Application table

| Application | Dilution |
|---|---|
| ICC/IF | 1:50 - 1:200 |
| IHC-P | 1:50 - 1:200 |
| WB | 1:500 - 1:1000 |

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| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |
| Positive Control | Mouse liver |
| Observed Size | ~ 44 kDa |

## Properties

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| 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. |

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

## Bioinformation

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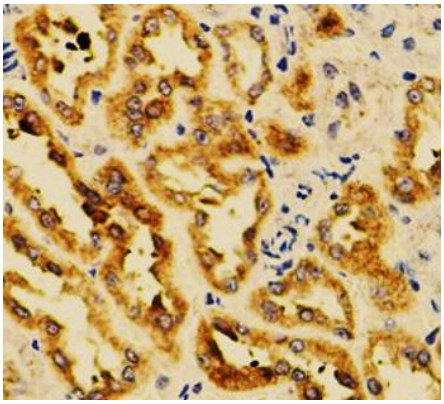
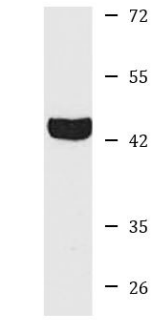
| Gene Symbol | SIRT3 |
| Gene Full Name | sirtuin 3 |
| Background | This gene encodes a member of the sirtuin family of proteins, homologs to the yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class I of the sirtuin family. Two alternatively spliced transcript variants that encode different proteins have been described for this gene. [provided by RefSeq, Jul 2008] |
| Function | NAD-dependent protein deacetylase. Activates or deactivates mitochondrial target proteins by deacetylating key lysine residues. Known targets include ACSS1, IDH, GDH, SOD2, PDHA1, LCAD, SDHA and the ATP synthase subunit ATP5O. Contributes to the regulation of the cellular energy metabolism. Important for regulating tissue-specific ATP levels. [UniProt] |
| Calculated Mw | 44 kDa |
| PTM | Processed by mitochondrial processing peptidase (MPP) to give a 28 kDa product. Such processing is probably essential for its enzymatic activity. [UniProt] |
| Cellular Localization | Mitochondrion matrix [UniProt] |

## Images



ARG57750 anti-SIRT3 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat kidney stained with ARG57750 anti-SIRT3 antibody at 1:100 dilution.




ARG57750 anti-SIRT3 antibody WB image

Western blot: 25 µg of Mouse liver lysate stained with ARG57750 anti-SIRT3 antibody at 1:1000 dilution.