

## Rabbit UCP3 Polyclonal Antibody | anti-UCP3 antibody

UCP3 Antibody

|                               |                       |                                        |                                                                               |
|-------------------------------|-----------------------|----------------------------------------|-------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA166948</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunofluorescence, Immunohistochemistry, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|-------------------------------------------------------------------------------|

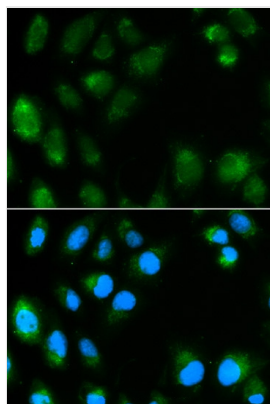
### PRODUCT SYNONYMS

UCP3; Polyclonal Antibody; UCP3 Antibody; SLC25A9; anti-UCP3 antibody

### PRODUCT SPECIFICATIONS

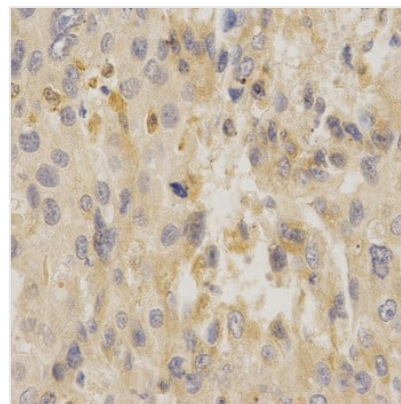
|                                                |                                                                                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                             |
| Reactivity                                     | Human, Mouse, Rat                                                                                  |
| Clonality                                      | Polyclonal                                                                                         |
| Isotype                                        | IgG                                                                                                |
| Purity/Purification                            | Antigen affinity purification                                                                      |
| Concentration                                  | 1mg/mL (varies by lot)                                                                             |
| Sequence Length                                | 312                                                                                                |
| Applicable Applications for anti-UCP3 antibody | IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                             |
| Immunogen                                      | Recombinant protein of human UCP3                                                                  |
| Buffer                                         | PBS with 0.02% sodium azide, 50% glycerol, pH7.3                                                   |
| Santa Cruz Alternative                         | Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-7756 / sc-31385 / sc-31387 |
| Preparation and Storage                        | Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.          |

### IMAGES



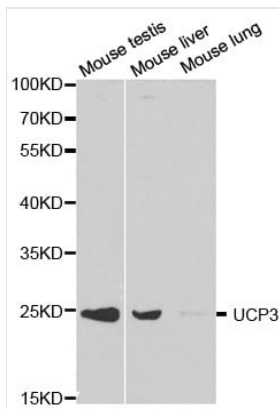
#### IF (Immunofluorescence)

Immunofluorescence analysis of MCF7 cell using UCP3 antibody. Blue: DAPI for nuclear staining.



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human liver cancer using UCP3 antibody at dilution of 1:200 (x400 lens)



#### WB (Western Blot)

Western blot analysis of extracts of various cell lines, using UCP3 antibody.

## ADDITIONAL INFORMATION

### Related Product Information for anti-UCP3 antibody

The uncoupling protein UCP1 (formerly designated UCP) is an integral membrane protein unique to brown adipose tissue mitochondria. UCP1 forms a dimer that acts as a proton channel, which can uncouple oxidative phosphorylation by dissipating the electrochemical potential across the inner mitochondrial membrane. This process induces heat production in brown adipose tissue and is involved in regulation of body temperature and glucose metabolism. UCP2 is a structurally related protein that also uncouples mitochondrial respiration. It is more widely expressed in human and mouse tissues, including white adipose tissue and muscle, than is UCP1. UCP2 is thought to play a role in body weight regulation. An additional UCP family member, UCP3, is highly muscle specific and is possibly involved in the uncoupling of oxidative phosphorylation in skeletal muscle.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| NCBI GI #                        | 2183021                                                               |
| NCBI GeneID                      | 7352                                                                  |
| Molecular Weight                 | 22,874 Da                                                             |
| NCBI Official Full Name          | UCP3                                                                  |
| NCBI Official Synonym Full Names | uncoupling protein 3 (mitochondrial, proton carrier)                  |
| NCBI Official Symbol             | UCP3                                                                  |
| NCBI Official Synonym Symbols    | SLC25A9                                                               |
| NCBI Protein Information         | mitochondrial uncoupling protein 3; solute carrier family 25 member 9 |
| UniProt Protein Name             | Mitochondrial uncoupling protein 3                                    |
| UniProt Gene Name                | <b>UCP3</b>                                                           |
| UniProt Synonym Gene Names       | SLC25A9; UCP 3                                                        |
| UniProt Entry Name               | UCP3_HUMAN                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ucp3-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/166948>