

## Canine Mitochondrial uncoupling protein 3 (UCP3) ELISA Kit | UCP3 elisa kit

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CATALOG #  
**AAA246484**

REACTIVITY  
**Canine**

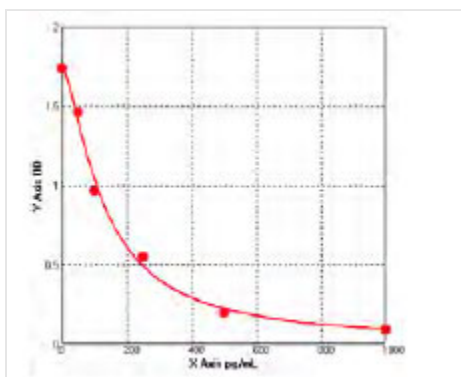
### PRODUCT SYNONYMS

Mitochondrial uncoupling protein 3 (UCP3); Canine Mitochondrial uncoupling protein 3 (UCP3) ELISA Kit; UCP3 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Canine                                                                                                                                                                                                                                                                                                                                                                                   |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of UCP3. No significant cross-reactivity or interference between UCP3 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between UCP3 and all the analogues, therefore, cross reaction may still exist in some cases. |
| Samples                 | Serum, plasma, cell culture supernatants, body fluid and tissue homogenate                                                                                                                                                                                                                                                                                                               |
| Assay Type              | Quantitative Competitive                                                                                                                                                                                                                                                                                                                                                                 |
| Sensitivity             | 1.0 pg/mL                                                                                                                                                                                                                                                                                                                                                                                |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                      |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for UCP3 elisa kit | <p>Intended Uses: This UCP3 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Canine UCP3. This ELISA kit for research use only, not for therapeutic or test applications!</p> <p>Principle of the Assay: UCP3 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-UCP3 antibody and an UCP3-HRP conjugate. The assay sample and buffer are incubated together with UCP3-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the UCP3 concentration since UCP3 from samples and UCP3-HRP conjugate compete for the anti-UCP3 antibody binding site. Since the number of sites is limited, as more sites are occupied by UCP3 from the sample, fewer sites are left to bind UCP3-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The UCP3 concentration in each sample is interpolated from this standard curve.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| NCBI GI #                        | 13259546                                                              |
| NCBI GeneID                      | 7352                                                                  |
| NCBI Accession #                 | NP_073714.1                                                           |
| NCBI GenBank Nucleotide #        | NM_022803.2                                                           |
| Molecular Weight                 | 22,874 Da                                                             |
| NCBI Official Full Name          | mitochondrial uncoupling protein 3 isoform UCP3S                      |
| 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                | UCP3                                                                  |
| 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://stage.aaabiotech.com/canine-elisa-kits/mitochondrial-uncoupling-protein-3-ucp3/246484>