

## Human Melanopsin ELISA Kit | OPN4 elisa kit

Human Melanopsin ELISA Kit

CATALOG #  
**AAA194004**

REACTIVITY  
**Human**

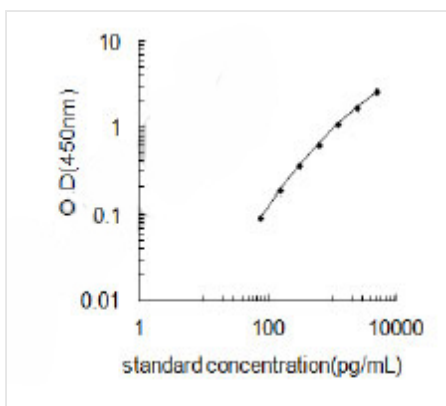
### PRODUCT SYNONYMS

Melanopsin; Human Melanopsin ELISA Kit; Opsin-4; OPN4; MOP; OPN4 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                 |
| Specificity             | Recombinant and natural Human Melanopsin                                              |
| Sequence Length         | 489                                                                                   |
| Samples                 | Serum, plasma, tissue homogenates, cell culture supernates or other biological fluids |
| Detection Range         | 78-5000 pg/mL                                                                         |
| Sensitivity             | < 40.2 pg/mL                                                                          |
| Intra-assay Precision   | <=8.4%                                                                                |
| Inter-assay Precision   | <=10.6%                                                                               |
| Preparation and Storage | For long term storage, please store the entire kit at -20 degree C.                   |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for OPN4 elisa kit | <p>Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to target antigen. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for target antigen and then avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB substrate solution is added to each well. Only those wells that contain target antigen, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm ± 2 nm. The concentration of target antigen in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> <p>Intended Uses: This immunoassay kit allows for the in vitro quantitative determination of target antigen concentrations in serum, plasma, tissue homogenates, cell culture supernates or other biological fluids.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                        |
|----------------------------------|----------------------------------------|
| NCBI GI #                        | 71999143                               |
| NCBI GeneID                      | 94233                                  |
| NCBI Accession #                 | NP_001025186.1                         |
| NCBI GenBank Nucleotide #        | NM_001030015.2                         |
| UniProt Accession #              | Q9UHM6; Q14D01; Q2PP22; Q8NGQ9; B7ZLB3 |
| Molecular Weight                 | 53,822 Da                              |
| NCBI Official Full Name          | melanopsin isoform 2                   |
| NCBI Official Synonym Full Names | opsin 4                                |
| NCBI Official Symbol             | OPN4                                   |
| NCBI Official Synonym Symbols    | MOP                                    |
| NCBI Protein Information         | melanopsin                             |
| UniProt Protein Name             | Melanopsin                             |
| UniProt Gene Name                | OPN4                                   |
| UniProt Synonym Gene Names       | MOP                                    |
| UniProt Entry Name               | OPN4_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/opn4-human-elisa-kits/melanopsin/194004>