

## Human Calpain 14 (CAPN14) ELISA Kit | CAPN14 elisa kit

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CATALOG #  
**AAA246163**

REACTIVITY  
**Human**

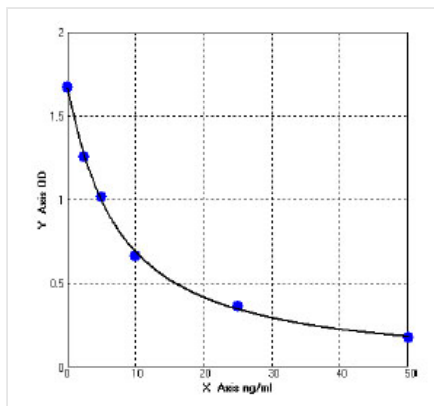
### PRODUCT SYNONYMS

Calpain 14 (CAPN14); Human Calpain 14 (CAPN14) ELISA Kit; CAPN14 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                          |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of CAPN14. No significant cross-reactivity or interference between CAPN14 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CAPN14 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             | 0.1 ng/mL                                                                                                                                                                                                                                                                                                                                                                                      |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                                                                                                                                                                                                                            |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

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|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CAPN14 elisa kit | <p>Intended Uses: This CAPN14 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CAPN14. This ELISA kit for research use only, not for therapeutic or test applications!</p> <p>Principle of the Assay: CAPN14 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CAPN14 antibody and an CAPN14-HRP conjugate. The assay sample and buffer are incubated together with CAPN14-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 CAPN14 concentration since CAPN14 from samples and CAPN14-HRP conjugate compete for the anti-CAPN14 antibody binding site. Since the number of sites is limited, as more sites are occupied by CAPN14 from the sample, fewer sites are left to bind CAPN14-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CAPN14 concentration in each sample is interpolated from this standard curve.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                              |
|----------------------------------|--------------------------------------------------------------|
| NCBI GI #                        | 223468608                                                    |
| NCBI GeneID                      | 440854                                                       |
| NCBI Accession #                 | NP_001138594.1                                               |
| NCBI GenBank Nucleotide #        | NM_001145122.1                                               |
| Molecular Weight                 | 59,025 Da                                                    |
| NCBI Official Full Name          | calpain-14                                                   |
| NCBI Official Synonym Full Names | calpain 14                                                   |
| NCBI Official Symbol             | CAPN14                                                       |
| NCBI Protein Information         | calpain-14; CANP 14; calcium-activated neutral proteinase 14 |
| UniProt Protein Name             | Calpain-14                                                   |
| UniProt Gene Name                | CAPN14                                                       |
| UniProt Synonym Gene Names       | CANP 14                                                      |
| UniProt Entry Name               | CAN14_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.