

## ARG81592 Human Carboxypeptidase B2 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

| Cat. No.     | Component Name                        | Package              | Temp  |
|--------------|---------------------------------------|----------------------|---|
| ARG81592-001 | Antibody-coated microplate            | 8 X 12 strips        | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG81592-002 | Standard                              | 2 X 10 ng/vial       | 4°C   |
| ARG81592-003 | Standard/Sample diluent               | 30 ml (Ready to use) | 4°C   |
| ARG81592-004 | Antibody conjugate concentrate (100X) | 1 vial (100 µl)      | 4°C   |
| ARG81592-005 | Antibody diluent buffer               | 12 ml (Ready to use) | 4°C   |
| ARG81592-006 | HRP-Streptavidin concentrate (100X)   | 1 vial (100 µl)      | 4°C   |
| ARG81592-007 | HRP-Streptavidin diluent buffer       | 12 ml (Ready to use) | 4°C   |
| ARG81592-008 | 25X Wash buffer                       | 20 ml                | 4°C   |
| ARG81592-009 | TMB substrate                         | 10 ml (Ready to use) | 4°C (Protect from light)  |
| ARG81592-010 | STOP solution                         | 10 ml (Ready to use) | 4°C   |
| ARG81592-011 | Plate sealer                          | 4 strips             | Room temperature  |

### Summary

|                     |   |
|---------------------|---|
| Product Description | ARG81592 Human Carboxypeptidase B2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Carboxypeptidase B2 in serum, plasma (heparin, EDTA) and cell culture supernatants. |
| Tested Reactivity   | Hu  |
| Tested Application  | ELISA   |
| Specificity         | There is no detectable cross-reactivity with other relevant proteins.   |
| Target Name         | Carboxypeptidase B2   |
| Conjugation         | HRP   |
| Conjugation Note    | Substrate: TMB and read at 450 nm.  |
| Sensitivity         | 78 pg/ml  |
| Sample Type         | Serum, plasma (heparin, EDTA) and cell culture supernatants.  |
| Standard Range      | 156 - 10000 pg/ml   |
| Sample Volume       | 100 µl  |

|                 |  |
|-----------------|--|
| Precision       | Intra-Assay CV: 5.7%<br>Inter-Assay CV: 6.3%   |
| Alternate Names | Plasma carboxypeptidase B; Thrombin-activable fibrinolysis inhibitor; PCPB; Carboxypeptidase B2; TAFI; pCPB; EC 3.4.17.20; CPU; Carboxypeptidase U |

## Application Instructions

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|            |           |
|------------|-----------|
| Assay Time | ~ 5 hours |
|------------|-----------|

## Properties

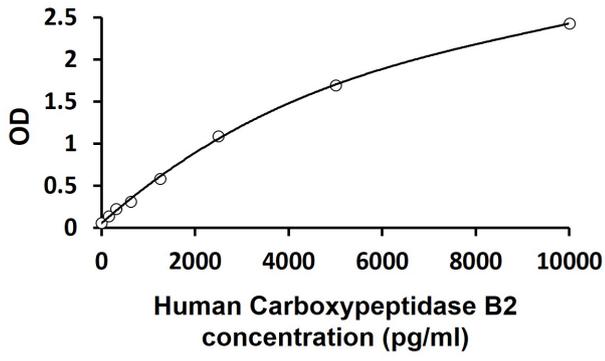
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|                     |  |
|---------------------|--|
| Form                | 96 well  |
| Storage instruction | Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

## Bioinformation

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|                |  |
|----------------|--|
| Gene Symbol    | CPB2   |
| Gene Full Name | carboxypeptidase B2 (plasma)   |
| Background     | Carboxypeptidases are enzymes that hydrolyze C-terminal peptide bonds. The carboxypeptidase family includes metallo-, serine, and cysteine carboxypeptidases. According to their substrate specificity, these enzymes are referred to as carboxypeptidase A (cleaving aliphatic residues) or carboxypeptidase B (cleaving basic amino residues). The protein encoded by this gene is activated by trypsin and acts on carboxypeptidase B substrates. After thrombin activation, the mature protein downregulates fibrinolysis. Polymorphisms have been described for this gene and its promoter region. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013] |
| Function       | Cleaves C-terminal arginine or lysine residues from biologically active peptides such as kinins or anaphylatoxins in the circulation thereby regulating their activities. Down-regulates fibrinolysis by removing C-terminal lysine residues from fibrin that has already been partially degraded by plasmin. [UniProt]  |
| Highlight      | Related products:<br><a href="#">Carboxypeptidase antibodies</a> ; <a href="#">Carboxypeptidase ELISA Kits</a> ; <a href="#">Carboxypeptidase recombinant proteins</a> ;<br>New ELISA data calculation tool:<br><a href="#">Simplify the ELISA analysis by GainData</a>  |
| PTM            | N-glycosylated. N-glycan at Asn-108: Hex5HexNAc4. [UniProt]  |



ARG81592 Human Carboxypeptidase B2 ELISA Kit standard curve image

ARG81592 Human Carboxypeptidase B2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.