# Recombinant Human CPA4 Protein, His-tagged

**Cat. No.** CPA4-782H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant human CPA4 protein with His tag was expressed in HEK293. |
| **Species** | Human |
| **Source** | HEK293 |
| **ProteinLength** | 421 |
| **Description** | This gene is a member of the carboxypeptidase A/B subfamily, and it is located in a cluster with three other family members on chromosome 7. Carboxypeptidases are zinc-containing exopeptidases that catalyze the release of carboxy-terminal amino acids, and are synthesized as zymogens that are activated by proteolytic cleavage. This gene could be involved in the histone hyperacetylation pathway. It is imprinted and may be a strong candidate gene for prostate cancer aggressiveness. |
| **Form** | Lyophilized |
| **Molecular Mass** | 46.4 kDa |
| **AA Sequence** | MRWILFIGALIGSSICGQEKFFGDQVLRINVRNGDEISKLSQLVNSNNLKLNFWKSPS SFNRPVDVLVPSVSLQAFKSFLRSQGLEYAVTIEDLQALLDNEDDEMQHNEGQERS SNNFNYGAYHSLEAIYHEMDNIAADFPDLARRVKIGHSFENRPMYVLKFSTGKGVRR PAVWLNAGIHSREWISQATAIWTARKIVSDYQRDPAITSILEKMDIFLLPVANPDGYVY TQTQNRLWRKTRSRNPGSSCIGADPNRNWNASFAGKGASDNPCSEVYHGPHANS EVEVKSVVDFIQKHGNFKGFIDLHSYSQLLMYPYGYSVKKAPDAEELDKVARLAAKA |

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| | LASVSGTEYQVGPTCTTVYPASGSSIDWAYDNGIKFAFTFELRDTGTYGFLLPANQII PTAEETWLGLKTIMEHVRDNLY |
| **Purity** | > 98% |
| **Applications** | WB; ELISA; FACS; FC |
| **Stability** | This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use. |
| **Storage** | At -20 centigrade. |
| **Concentration** | 1 mg/mL |
| **Storage Buffer** | PBS (pH 7.4-7.5). Sterile-filtered colorless solution. |
| **Reconstitution** | Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance. |

## GENE INFORMATION

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| **Gene Name** | CPA4 carboxypeptidase A4 [ Homo sapiens (human) ] |
| **Official Symbol** | CPA4 |
| **Synonyms** | CPA4; carboxypeptidase A4; carboxypeptidase A3; CPA3; |
| **Gene ID** | 51200 |

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| **mRNA Refseq** | NM_001163446 |
| **Protein Refseq** | NP_001156918 |
| **MIM** | 607635 |
| **UniProt ID** | Q9UI42 |

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