

## **CPA4 Antibody (C-term)**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP7338b

# **Specification**

## **CPA4 Antibody (C-term) - Product Information**

**Application** WB.E **Primary Accession 09UI42** Reactivity Human **Rabbit** Host Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 47351 **Antigen Region** 305-336

### CPA4 Antibody (C-term) - Additional Information

#### **Gene ID 51200**

### **Other Names**

Carboxypeptidase A4, 3417-, Carboxypeptidase A3, CPA4, CPA3

# **Target/Specificity**

This CPA4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 305-336 amino acids from the C-terminal region of human CPA4.

#### **Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

### **Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### **Precautions**

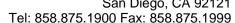
CPA4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

# CPA4 Antibody (C-term) - Protein Information

# Name CPA4

Synonyms CPA3







Function Metalloprotease that cleaves hydrophobic C-terminal residues with a preference for -Phe, -Leu, -Ile, -Met, -Tyr and -Val (PubMed: 20385563). May function in peptide hormone and/or neuropeptide catabolism (PubMed:20385563).

**Cellular Location** Secreted.

#### **Tissue Location**

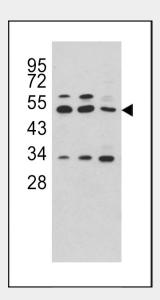
Fetal expression in the adrenal gland, brain, heart, intestine, kidney, liver and lung. Except for fetal brain that shows no imprinting, expression was found preferentially from the maternal allele

# **CPA4 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

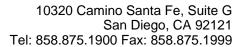
# CPA4 Antibody (C-term) - Images



Western blot analysis of CPA4 antibody (C-term) (Cat.#AP7338b) in Hela, CEM and NCI-H460 cell line lysates (35ug/lane). CPA4 (arrow) was detected using the purified Pab.

### CPA4 Antibody (C-term) - Background

CPA4 is a member of the carboxypeptidase A/B subfamily. 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 protein could be involved in the histone hyperacetylation pathway. It is imprinted and may be a strong candidate protein for prostate cancer aggressiveness.





# **CPA4 Antibody (C-term) - References**

Ross,P.L., Cheng,I. BMC Cancer 9, 69 (2009) Bentley,L., Nakabayashi,K. J. Med. Genet. 40 (4), 249-256 (2003) Kayashima,T., Yamasaki,K. Hum. Genet. 112 (3), 220-226 (2003) Hayashida,S., Yamasaki,K. Genomics 66 (2), 221-225 (2000)