

Datasheet for ABIN3043984  
**anti-VCP antibody (C-Term)**



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6 Images

## Overview

Quantity:	100 µg
Target:	VCP
Binding Specificity:	AA 749-766, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Transitional endoplasmic reticulum ATPase(VCP) detection. Tested with WB, IHC-P, IHC-F, ICC in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human VCP(749-766aa DNDIRKYEMFAQTLQQR), identical to the related rat and mouse sequences.
Sequence:	DNDIRKYEMF AQLQQR
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Transitional endoplasmic reticulum ATPase(VCP) detection.

## Product Details

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Tested with WB, IHC-P, IHC-F, ICC in Human, Mouse, Rat.

Gene Name: valosin containing protein

Protein Name: Transitional endoplasmic reticulum ATPase

Purification: Immunogen affinity purified.

## Target Details

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Target: VCP

Alternative Name: VCP ([VCP Products](#))

Background: Valosin-containing protein also called CDC48 is an enzyme that in humans is encoded by the VCP gene. It is a member of the AAA+(ATPase associated with various activities) protein family. The VCP gene maps to chromosome 9p13.3. It is necessary for the fragmentation of Golgi stacks during mitosis and for their reassembly after mitosis. It is involved in the formation of the transitional endoplasmic reticulum. This gene plays a role in vesicle transport and fusion, 26S proteasome function, and assembly of peroxisomes. It also involved in DNA damage response: recruited to double-strand breaks (DSBs) sites in a RNF8- and RNF168-dependent manner and promotes the recruitment of TP53BP1 at DNA damage sites.

Synonyms: 15S Mg(2+) ATPase p97 subunit antibody|15S Mg(2+)-ATPase p97 subunit antibody|ALS14 antibody|ATPase p97 antibody|BMPFD antibody|MGC131997 antibody|MGC148092 antibody|MGC8560 antibody|p97 antibody|TER ATPase antibody|TERA antibody|TERA\_HUMAN antibody|Transitional endoplasmic reticulum ATPase antibody|Valosin containing protein antibody|Valosin-containing protein antibody|VCP antibody|Yeast Cdc48p homolog antibody

UniProt: [P55072](#)

Pathways: [ER-Nucleus Signaling](#), [Positive Regulation of Endopeptidase Activity](#), [Ubiquitin Proteasome Pathway](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Predicted Species: Human, Mouse

## Application Details

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ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human, Predicted Species: Mouse, Rat  
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P), IHC(F) and ICC.

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

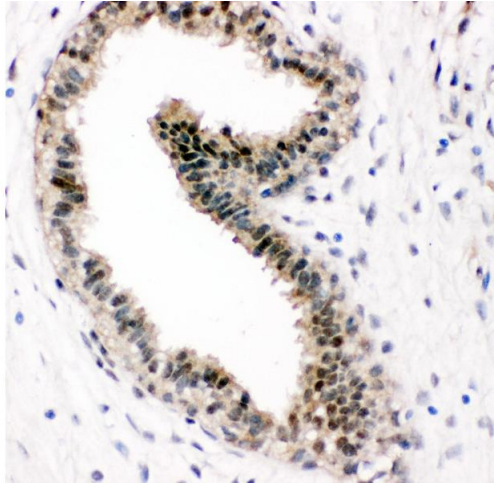
Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

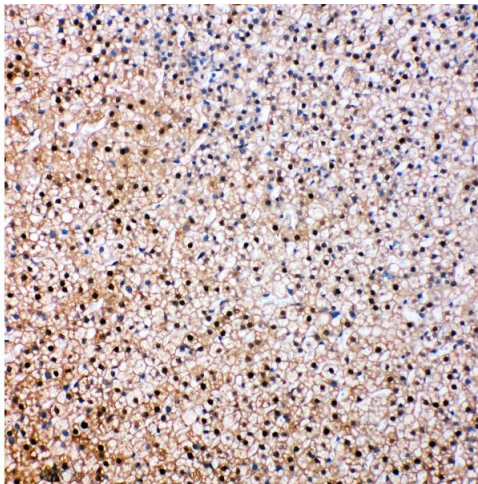
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months



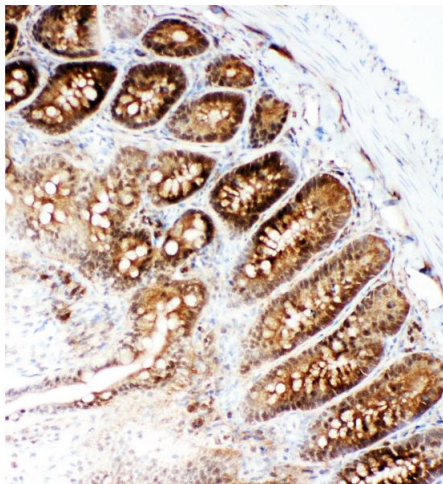
#### Immunohistochemistry

**Image 1.** Anti-VCP antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue



#### Immunohistochemistry

**Image 2.** Anti-VCP antibody, IHC(P) IHC(P): Rat Epinephros Tissue



#### Immunohistochemistry

**Image 3.** Anti-VCP antibody, IHC(F) IHC(F): Rat Intestine Tissue

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN3043984.