

Datasheet for ABIN3043958  
**anti-VCP antibody (C-Term)**[Go to Product page](#)

## 7 Images

## Overview

Quantity:	100 µg
Target:	VCP
Binding Specificity:	AA 732-760, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), 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 in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human VCP (732-760aa RRDHFEEMRFARRSVSDNDIRKYEMFAQ), identical to the related rat and mouse sequences.
Sequence:	RRDHFEEMR FARRSVSDND IRKYEMFAQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Transitional endoplasmic reticulum ATPase(VCP) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat. Gene Name: valosin containing protein Protein Name: Transitional endoplasmic reticulum ATPase

## Product Details

Purification: Immunogen affinity purified.

## Target Details

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|IBMPFD 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

Gene ID: 7415

UniProt: [P55072](#)

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

## Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for VCP is approximately 0.1 ng/lane under reducing conditions.

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: Mouse, Rat

Notes: Tested Species: Species with positive results. Other applications have not been tested.

## Application Details

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) and IHC(F).

Restrictions: For Research Use only

## Handling

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 Sodium azide.

Preservative: Sodium azide

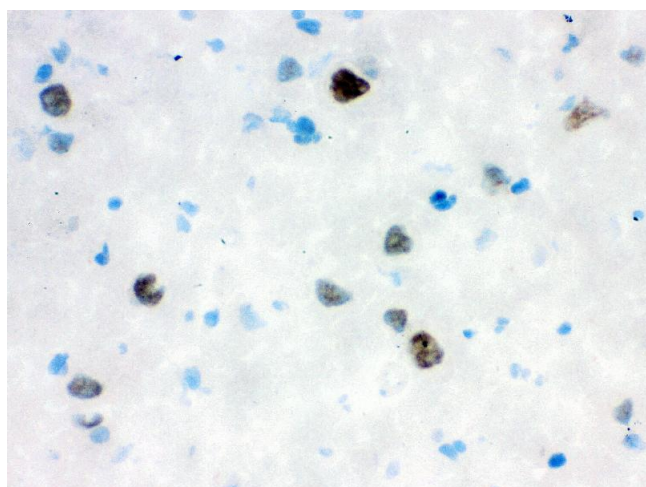
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

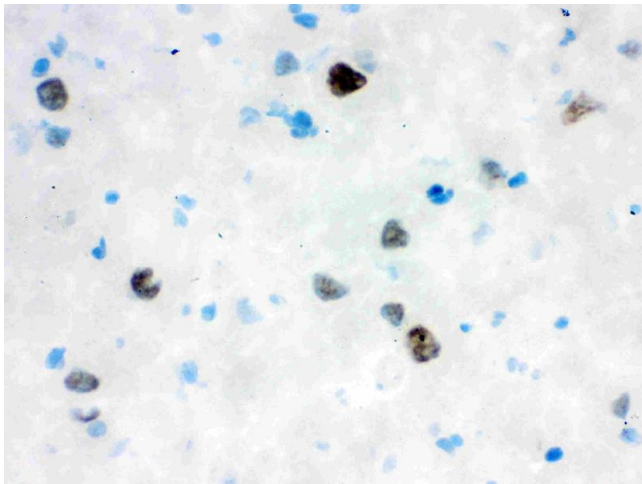
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Validation report #300031 for Immunohistochemistry (IHC)



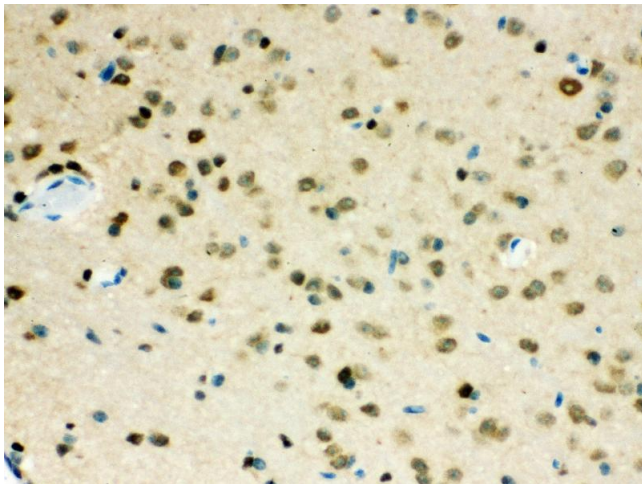
### Immunohistochemistry

**Image 1.** Anti- VCP Picoband antibody, IHC(F) IHC(F): Rat Brain Tissue



#### Immunohistochemistry

**Image 2.** Anti- VCP Picoband antibody, IHC(F): Rat Brain Tissue



#### Immunohistochemistry

**Image 3.** Anti- VCP Picoband antibody, IHC(P) IHC(P): Mouse Brain Tissue

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN3043958.