Performance guarenteed

VCP Monoclonal Antibody (5)

Product Details

Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Yeast, Human, Mouse
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Туре	Antibody
Clone	5
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues C G(792) G S V Y T E D N D D D L Y G(806) of mouse VCP.
Form	Liquid
Concentration	1.0 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2214638

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	19 Publications
Immunohistochemistry (IHC)	-	10 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:500	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	1:500	-
Immunocytochemistry (ICC/IF)	1:20-1:200	6 Publications
Flow Cytometry (Flow)	1/400	-
Immunoprecipitation (IP)	Assay-dependent	4 Publications

Product Specific Information

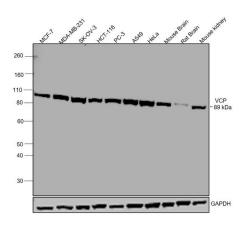
MA3-004 detects VCP protein in human, mouse, and rat samples.

MA3-004 has successfully been used in Western blot immunoprecipitation, and immunohistochemical procedures. By Western blot, this antibody detects an ~97 kDa protein representing VCP from total lysate of cultured human B cells.

The MA3-004 immunogen is a synthetic peptide corresponding to residues C G(792) G S V Y T E D N D D D L Y G(806) of mouse VCP. This peptide (Cat. # PEP-239) is available for use in neutralization and control experiments.

1

Product Images For VCP Monoclonal Antibody (5)

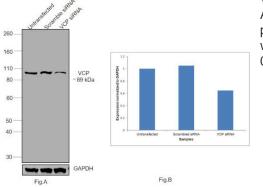


VCP Antibody (MA3-004) in WB

Western blot was performed using Anti-VCP Polyclonal Antibody (Product # MA3-004) and a 89 kDa band corresponding to VCP was observed in across all tested cell lines and tissues. Whole cell extracts (30 µg lysate) of MCF-7 (Lane 1), MDA-MB-231 (Lane 2), SK-OV-3 (Lane 3), HCT-116 (Lane 4), PC-3 (Lane 5), A549 (Lane 6), HeLa (Lane 7), Mouse brain (Lane 8), Rat brain (Lane 9), Mouse Kidney (Lane 10) were electrophoresed using NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L), Superclonal[™] Recombinant Secondary Antibody, HRP (Product # A28177, 1: 4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005)..

VCP Antibody (MA3-004)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. MCF-7 cells were transfected with VCP siRNA and reduction of signal was observed in Western Blot using VCP Polyclonal Antibody (Product # MA3-004). {KD}



VCP Antibody (MA3-004) in ICC/IF

Arriver antibody a Composite d Composite b Composite e c c c c c c c c Immunofluorescence analysis of VCP was performed using HeLa cells. The cells were fixed and permeabilized with ice cold 100% Acetone for 5 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with VCP Monoclonal Antibody (5) (Product # MA3-004) at 5 microgram/mL concentration in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Superclonal[™] Recombinant Secondary Antibody, Alexa Fluor® 488 (Product # A28175) for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with ProLong[™] Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

View more figures on thermofisher.com

40 References

Western Blot (19)

	Year 2021
mpacts of p97 on Proteome Changes in Human Cells during	
Coronaviral Replication.	Species Human
VA3-004 was used in Western Blot to indicate a role for the essential host protein p97 in supporting HCoV replication, uggesting that p97 is a therapeutic target to treat HCoV infection."	
uthors: Cheng KW,Li S,Wang F,Ruiz-Lopez NM,Houerbi N,Chou TF	
cells	Year
Functional Inhibition of Valosin-Containing Protein Induces Cardiac	2021
Dilation and Dysfunction in a New Dominant-Negative Transgenic Mouse	Species Mouse
MA3-004 was used in Western Blot, Immunoprecipitation to determine the effects of impaired VCP activity on the heart.	
uthors: Sun X,Zhou N,Ma B,Wu W,Stoll S,Lai L,Qin G,Qiu H	
	View more WB references on thermofish
munohistochemistry (10)	
leuropathology : official journal of the Japanese Society of leuropathology	Year 2022
An autopsy case of amyotrophic lateral sclerosis with striatonigral and	
ballidoluysian degeneration and cat's-eye-shaped neuronal nuclear	
nclusions.	
Published figure using VCP monoclonal antibody (Product # MA3-004) in Immunohistochemistry"	
uthors: Kon T,Mori F,Kinoshita I,Nakamura T,Nishijima H,Suzuki C,Goto S,Kijima H,Tomiyama M,Wakabayashi K	
leurology. Genetics	Year
PFKM gene defect and glycogen storage disease GSDVII with	2015
nisleading enzyme histochemistry.	Species
MA3-004 was used in Immunohistochemistry to suggest that glycogen storage disease type VII cannot be excluded by ormal enzyme histochemistry previously used as the gold standard for diagnosis."	Human
uthors: Auranen M,Palmio J,Ylikallio E,Huovinen S,Paetau A,Sandell S,Haapasalo H,Viitaniemi K,Piirilä P,Tyynismaa I,Udd B	
	View more IHC references on thermofish

IHC (P) (1) ICC/IF (6) IP (4)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. No OTHER WARRANTES, EXPERSES OR IMPLED, ARER CRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTTES OF MERCHANTABILITY. THRESS FOR ANY PARTICULAR PUPROSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR THE NON-CONFORMING PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER ON EVENT OF FORCE MAJELURE, (II) MISUBE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE RODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HADDLING OF THE PRODUCTS. Not have any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.