

# Human Transitional endoplasmic reticulum ATPase (VCP) ELISA Kit



Catalog No: #EK5890

Orders: order@signalwayantibody.com

Package Size: #EK5890-1 48T #EK5890-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Transitional endoplasmic reticulum ATPase (VCP) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	IBMPFD; MGC131997; MGC148092; MGC8560; TERA; p97; transitional endoplasmic reticulum ATPase yeast Cdc48p homolog
Accession No.	P55072
Uniprot	P55072
GeneID	7415;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.  The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:0.312-20 ng/mL

Sensitivity:0.112 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate VCP in samples. An antibody specific for VCP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyVCP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for VCP is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of VCP bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**VCP is a member of a family that includes putative ATP-binding proteins involved in vesicle transport and fusion, 26S proteasome function, and assembly of peroxisomes. VCP, as a structural protein, is associated with clathrin, and heat-shock protein Hsc70, to form a complex. VCP has been implicated in a number of cellular events that are regulated during mitosis, including homotypic membrane fusion, spindle pole body function, and ubiquitin-dependent protein degradation.

Clathrin is a structural protein found in coated pits and vesicles, organelles which are important in membrane trafficking functions such as endocytosis and Golgi sorting. A 100-kD protein, designated valosin-containing protein or VCP by early investigators, is a structural protein complexed with clathrin.

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Note: This product is for in vitro research use only