

AB-PN1007

VCP-pY805 Antibody

Phosphosite-specific rabbit polyclonal antibody for VCP



KINEXUS

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Target Protein

Protein Name Long:	Transitional endoplasmic reticulum ATPase
Protein Alias:	15S Mg(2+)-ATPase p97 subunit; IBMPFD; P97; TER ATPase; TERA; Valosin containing protein; Valosin-containing protein
UniProt ID:	P55072
Protein Molecular Mass:	89,322 Da (806 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human VCP
Antibody Immunogen Sequence:	CNDDDL(pY)G-cooh
Antibody Immunogen Description:	Corresponds to amino acid residues D801 to G806. Y805 phosphorylation regulates intracellular location of VCP. This is the major site of <i>in vivo</i> phosphorylation of VCP (260 high-throughput mass spectrometry reports in PhosphoSite Plus) and located at the C-terminus of the protein.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipеп peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
Amount:	25 µg
Antibody Concentration:	0.1 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting

Antibody Species Reactivity:

Human | Chimpanzee | Rhesus Macaque | Dog | Rabbit | Rat | Mouse | Chicken

This product is for *in vitro* research use only and is not intended for use in humans or animals.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987