

Product datasheet for **AP21142PU-N**

VCP Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections: 1/50 - 1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of VCP protein. (region surrounding Ala346)
Formulation:	PBS, pH 7.2 State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity chromatography (> 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 88 kDa
Gene Name:	valosin containing protein
Database Link:	<u>Entrez Gene 116643 Rat</u> <u>Entrez Gene 269523 Mouse</u> <u>Entrez Gene 7415 Human</u> <u>P55072</u>



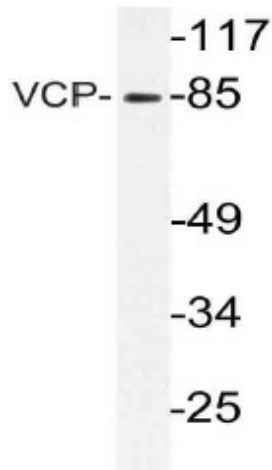
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Background:

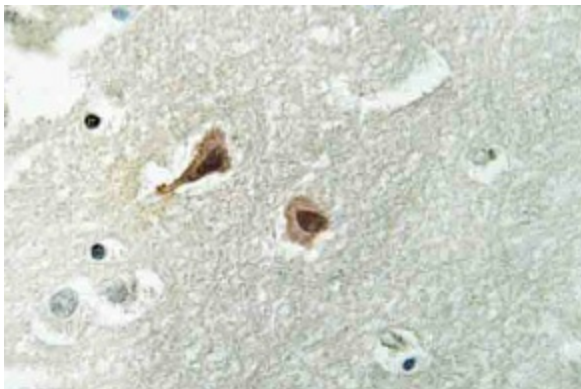
Valosin-containing protein (VCP or p97) belongs to the AAA (ATPase associated activities) family and acts as a molecular chaperone to a wide variety of cellular activities. Some of these activities include the alteration of both nuclear and mitotic golgi membranes, ubiquitin-proteasome dependent protein degradation, regulation of the NF-kappa b pathway, and extraction of membrane proteins. VCP has been shown to contain a substrate binding domain (N) and two conserved ATPase domains (D1 and D2). The three dimensional structure of VCP resembles that of a cylinder with the D1 and D2 stacked upon one another in a homo-hexameric ring formation. VCP is involved in the formation of neuronal inclusion bodies in neurodegenerative disease such as Parkinsons Disease.

Synonyms:

15S Mg(2+)-ATPase p97 subunit, Valosin-containing protein

Product images:

Western blot (WB) analysis of VCP antibody (Cat.-No.: AP21142PU-N) in extracts from 3T3 cells.



Immunohistochemistry (IHC) analyzes of VCP antibody (Cat.-No.: AP21142PU-N) in paraffin-embedded human brain tissue.