

Product datasheet for **AP01505PU-S**

CACNA1H Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western blot: 1/500-1/1000.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 461-510 of Human T-type Ca ⁺⁺ CP α 1H.
Specificity:	This antibody detects endogenous levels of T-type Ca ⁺⁺ CP α 1H protein. (region surrounding Pro492)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store the antibody 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:	~259 kDa
Gene Name:	calcium voltage-gated channel subunit alpha1 H
Database Link:	Entrez Gene 8912 Human O95180



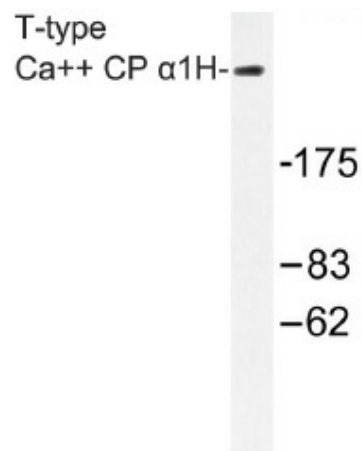
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Background:

Voltage-dependent Ca^{++} channels mediate Ca^{++} entry into excitable cells in response to membrane depolarization, and they are involved in a variety of Ca^{++} -dependent processes, including muscle contraction, hormone or neurotransmitter release and gene expression. Calcium channels are highly diverse, multimeric complexes composed of an $\alpha 1$ subunit, an intracellular β subunit, a disulfide linked $\alpha 2/\delta$ subunit and a transmembrane γ subunit. Ca^{++} currents are characterized on the basis of their biophysical and pharmacologic properties and include L-, N-, T-, P-, Q-, and R- types. T-type Ca^{++} currents are activated and inactivated more rapidly and at more negative membrane potentials than other Ca^{++} current types. T-type Ca^{++} channels enhance odor sensitivity by lowering the threshold of spike generation in olfactory receptor cells (ORCs).

Synonyms:

Cav3.2

Product images:

Western blot (WB) analysis of T-type Ca^{++} CP $\alpha 1\text{H}$ antibody in extracts from A549 cells.