

Product datasheet for **AP09541SU-N**

AHNAK Guinea Pig Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, IP, WB
Recommended Dilution:	Western Blot: 1/1,000-1/2,000 (ECL). Immunoprecipitation. Immunofluorescence. Immunohistochemistry on Frozen Sections: 1/50-1/100. Incubation Time: 1 h at RT.
Reactivity:	Bovine, Human
Host:	Guinea Pig
Clonality:	Polyclonal
Immunogen:	Synthetic peptides of Human Desmoyokin (D1a/b, D2a/b, D4a/b), coupled to KLH
Specificity:	This antibody is specific for Desmoyokin (AHNAK antigen), an approx.600 kD protein localized e.g. in interdesmosomal membrane parts of epithelia and cortical lens fiber cells, but also found in the cytoplasm and nuclei of epithelia.
Formulation:	State: Serum State: Liquid Stabilized Antiserum Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	AHNAK nucleoprotein
Database Link:	Entrez Gene 79026 Human Q09666



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Background:

AHNAK1 (Desmoyokin) is a large (700 kDa) scaffold protein that translocates to the plasma membrane after an increase of extracellular calcium level or upon protein kinase C activation and regulates extracellular calcium influx mediated by L-type Ca^{2+} channels. AHNAK1 has been implicated in diverse signal transduction processes affecting cell differentiation and proliferation. In response to calcium-dependent intercellular contacts AHNAK1 forms multimeric complexes in the plasma membrane, connected with actin and annexin 2/S100A10 assemblies and is thus involved in organization of the plasma membrane architecture. In epithelial cells, AHNAK1 is localized in cytoplasm or is membrane-associated, but in cells of nonepithelial origin AHNAK1 is predominantly nuclear; it has a weak DNA-binding activity and associates with the DNA-ligase IV-XRCC4 complex.

Synonyms:

Desmoyokin

Protein Families:

Protease