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Datasheet for ABIN263928

anti-AHNAK antibody (N-Term)

3 Images

Overview

Quantity:	0.1 mg
Target:	AHNAK
Binding Specificity:	N-Term
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This AHNAK antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunofluorescence (IF)

Product Details

Immunogen:	Bacterially expressed fragment of N-terminal domain of human AHNAK1
Clone:	EM-09
Isotype:	IgG1
Specificity:	The antibody reacts with AHNAK1, a 700 kDa multi-functional adaptor protein expressed mainly in epithelial cell, various types of muscle cells and immune cells.
Cross-Reactivity (Details):	Species reactivity (tested):Human, Mouse.
Characteristics:	Synonyms: Desmoyokin, Neuroblast differentiation-associated protein AHNAK
Purification:	Protein A Affinity Chromatography

Target Details

Target:	AHNAK
Abstract:	AHNAK Products
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 non-epithelial origin AHNAK1 is predominantly nuclear, it has a weak DNA-binding activity and associates with the DNA-ligase IV-XRCC4 complex. Synonyms: Desmoyokin, Neuroblast differentiation-associated protein AHNAK
Gene ID:	79026
UniProt:	Q09666

Application Details

Application Notes:	Immunohistochemistry on frozen sections. Western blot (Positive control: HeLa human cervix carcinoma cell line). Immunocytochemistry (Permeabilization is required, positive control: HeLa human cervix carcinoma cell line). Immunoprecipitation. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
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Restrictions:	For Research Use only
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Handling

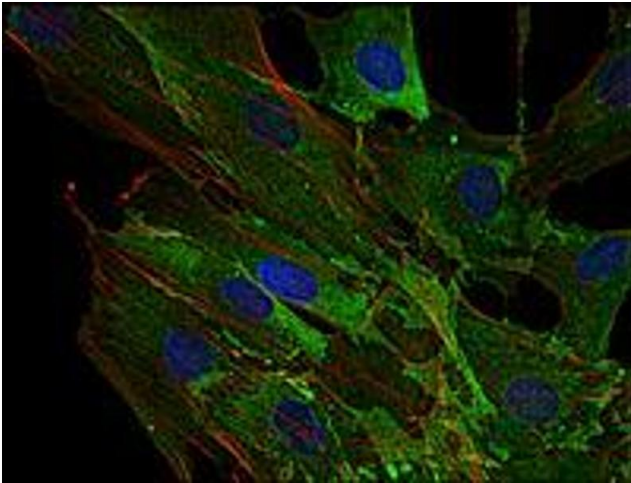
Concentration:	1.0 mg/mL
Buffer:	PBS, pH ~7.4, 15 mM Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C

Handling

Storage Comment: Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 to -80 °C for longer. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

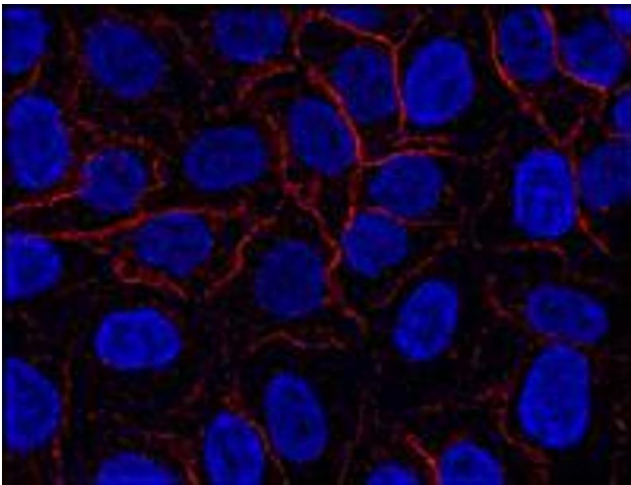
Expiry Date: 12 months

Images



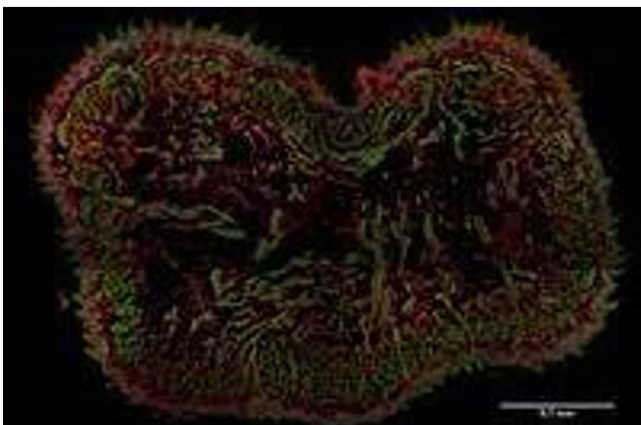
Immunofluorescence

Image 1.



Immunofluorescence

Image 2.



Immunofluorescence

Image 3.