



Datasheet for ABIN302097

anti-AHNAK antibody (N-Term)



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6 Images

1 Publication

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), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Bacterially expressed fragment of N-terminal domain of human AHNAK1.
Clone:	EM-09
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody EM-09 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):	Human, Mouse
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	AHNAK
Alternative Name:	AHNAK1 (AHNAK Products)
Background:	AHNAK1 nucleoprotein,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.,Desmoyokin
Gene ID:	79026
UniProt:	Q09666

Application Details

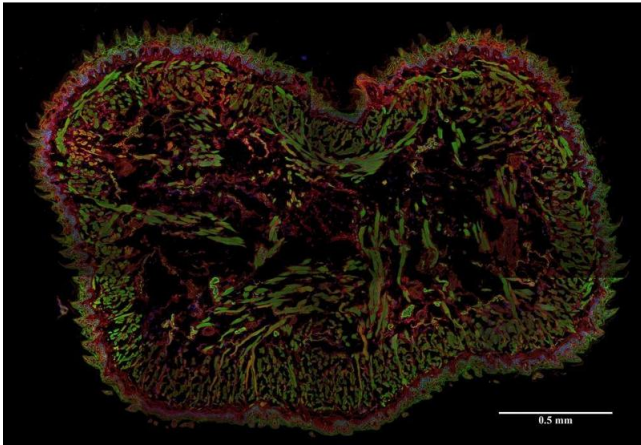
Application Notes:	Immunocytochemistry: Positive control: HeLa human cervix carcinoma cell line, permeabilization is required. Western blotting: Positive control: HeLa human cervix carcinoma cell line.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (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.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

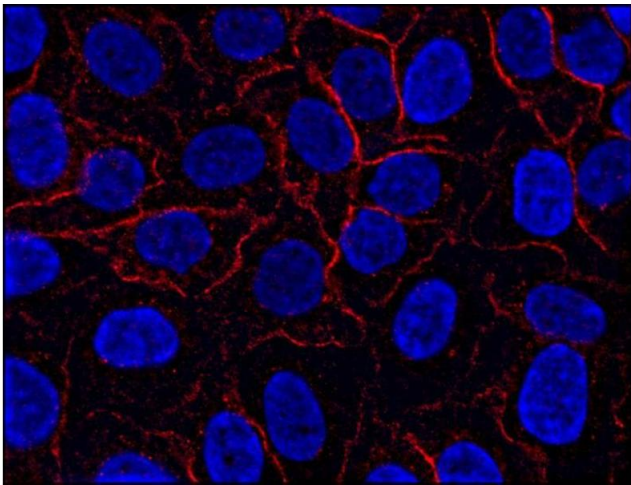
Product cited in: Johnson, Zhang, Adams, Phillips, Freitas, Froehner, Green-Church, Montanaro: "Proteomic analysis reveals new cardiac-specific dystrophin-associated proteins." in **PLoS ONE**, Vol. 7, Issue 8, pp. e43515, (2012) ([PubMed](#)).

Images



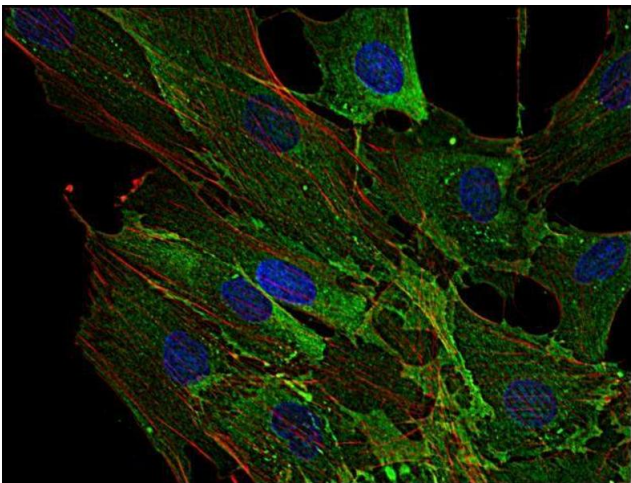
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry staining (frozen sections) of murine tongue by anti-AHNAK1 antibody (EM-09, red). Actin filaments were decorated by phalloidin (green), cell nuclei stained with DAPI (blue).



Immunofluorescence

Image 2. Immunofluorescence staining of AHNAK1 in HeLa cell line using anti-AHNAK1 (red). Cell nuclei stained with DAPI (blue).



Immunofluorescence

Image 3. Immunofluorescence staining of AHNAK1 in human primary fibroblasts using anti-AHNAK1 (EM-09 ; green). Actin filaments were decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).

Images

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN302097.