9853 Pacific Heights Blvd.
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30-1377: Anti-AHNAK1 Monoclonal Antibody (Clone:EM-09)

Clonality :	Monoclonal
Clone Name :	EM-09
Application :	WB, IHC-Fr, ICC, IP
Reactivity :	Human, Mouse
Format :	Purified
Isotype :	Mouse IgG1
Immunogen Information :	Bacterially expressed fragment of N-terminal domain of human AHNAK1.

Description

AHNAK1 (Desmoyokin) is a large (700 kDa) scaffold protein that translocates to the plasma membrane after an increas of extracellular calcium level or upon proteinkinase C activation and regulates extracellular calcium influx mediated by L-type Ca2+ channels. AHNAK1 has been implicated in diverse signal transduction proceses 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.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

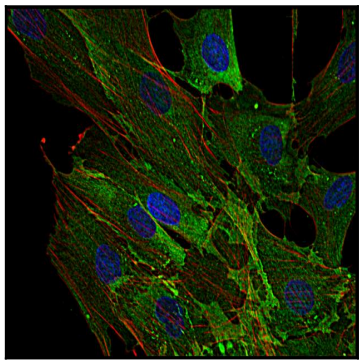

Figure 1: Immunofluorescence staining of AHNAK1 in human primary fibroblasts using anti-AHNAK1 (EM-09; green). Actin filaments were decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).

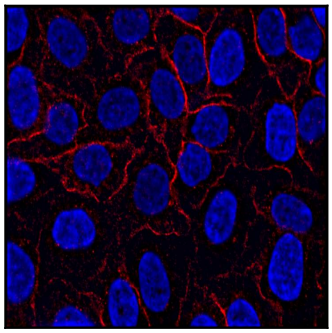

Figure 2: Immunofluorescence staining of AHNAK1 in HeLa cell line using anti-AHNAK1 (EM-09; red).

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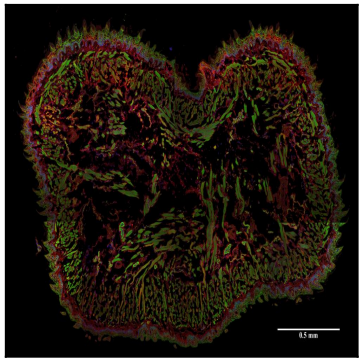

Figure 3: Immunohistochemistry staining (frozen sections) of murine tongue by anti-AHNAK1 antibody (EM-09; red). Actin filaments were decorated by phalloidin (green), cell nuclei stained with DAPI (blue).