

ARG62667 anti-AHNAK1 antibody [EM-09]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [EM-09] recognizes AHNAK1
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, IHC-Fr, IP, WB
Specificity	The clone 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.
Host	Mouse
Clonality	Monoclonal
Clone	EM-09
Isotype	IgG1
Target Name	AHNAK1
Species	Human
Immunogen	Bacterially expressed fragment of N-terminal domain of human AHNAK1.
Conjugation	Un-conjugated
Alternate Names	Desmoyokin; AHNAKRS; Neuroblast differentiation-associated protein AHNAK

Application Instructions

Application table	Application	Dilution
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	IP	Assay-dependent
	WB	Assay-dependent
Application Note	ICC/IF: Permeabilization is required. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	WB and ICC/IF: HeLa	

Properties

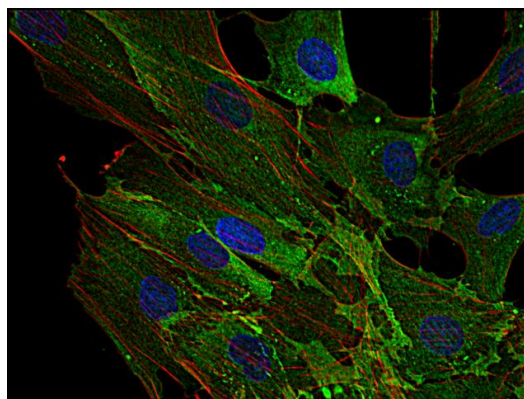
Form	Liquid
Purification	Purified from hybridoma culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide

Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

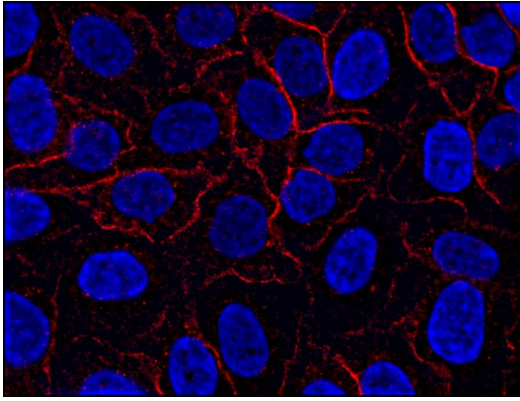
Database links	GeneID: 79026 Human Swiss-port # Q09666 Human
Gene Symbol	AHNAK
Gene Full Name	AHNAK nucleoprotein
Background	AHNAK1 (Desmoyokin) is a large (700 kDa) scaffold protein that translocates to the plasma membrane after an increase of extracellular calcium level or upon protein kinase C activation 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.
Function	May be required for neuronal cell differentiation. [UniProt]
Research Area	Cancer antibody; Signaling Transduction antibody
Calculated Mw	629 kDa

Images



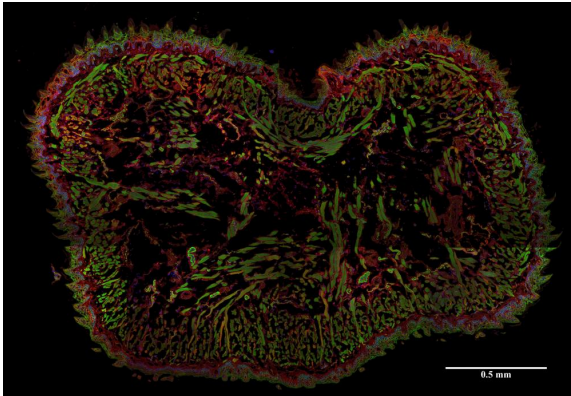
ARG62667 anti-AHNAK1 antibody [EM-09] ICC/IF image

Immunofluorescence: Human primary fibroblasts stained with ARG62667 anti-AHNAK1 antibody [EM-09] (green)
 Actin cytoskeleton was stained with phalloidin (red) and cell nuclei stained with DAPI (blue).



ARG62667 anti-AHNAK1 antibody [EM-09] ICC/IF image

Immunofluorescence: HeLa cells stained with ARG62667 anti-AHNAK1 antibody [EM-09] (red)
Cell nuclei was stained with DAPI (blue).



ARG62667 anti-AHNAK1 antibody [EM-09] IHC-Fr image

Immunohistochemistry: Murine tongue section stained with ARG62667 anti-AHNAK1 antibody [EM-09].