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Purified Mouse anti-AHNAK1 Monoclonal Antibody

CLX332AP

Lot:

Size: 0.1 mg

Clone: EM-09

Isotype: Mouse IgG1

Specificity: The 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.

Immunogen: Bacterially expressed fragment of N-terminal domain of human AHNAK1.

Species Reactivity: Human, Mouse

Application: **Western Blotting**
Positive control: HeLa human cervix carcinoma cell line
Immunocytochemistry
Positive control: HeLa human cervix carcinoma cell line
Application note: Permeabilization is required.

Immunoprecipitation

Purity: > 95% (by SDS-PAGE)

Purification: Purified from hybridoma culture supernatant by protein-A affinity chromatography.

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

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 Ca²⁺ 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

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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.

References:

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*Haase H, Alvarez J, Petzhold D, Doller A, Behlke J, Erdmann J, Hetzer R, Regitz-Zagrosek V, Vassort G, Morano I: Ahnak is critical for cardiac Ca(V)1.2 calcium channel function and its beta-adrenergic regulation. *FASEB J.* 2005 Dec;19(14):1969-77.

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