

Anti-AHNAK1 Purified Monoclonal Antibody

Catalog Number: M05378

About AHNAK1

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.

Overview

Product Name	Anti-AHNAK1 Purified Monoclonal Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-AHNAK1 Purified Monoclonal Antibody (Catalog# M05378). Tested in WB, IHC-F, ICC, IP application(s). This antibody reacts with Human, Mouse.
Application	IP, IHC-F, ICC, WB
Clonality	Monoclonal EM-09
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	Q09666

Technical Details

Immunogen	Bacterially expressed fragment of N-terminal domain of human AHNAK1. 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.
Predicted Reactive Species	Primate
Cross Reactivity	This antibody does not cross-react with Thy-1.1 alloantigen.
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml

Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Immunocytochemistry: Positive control: HeLa human cervix carcinoma cell line, permeabilization is required.</p> <p>Western blotting: Positive control: HeLa human cervix carcinoma cell line.</p>

Anti-AHNAK1 Purified Monoclonal Antibody (M05378) Images

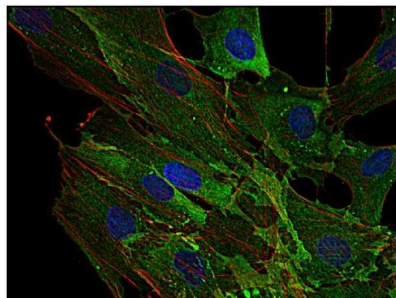


Figure 1. Immunocytochemistry staining of AHNAK using Anti-AHNAK1 Purified Monoclonal Antibody (M05378).

Immunocytochemistry 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).

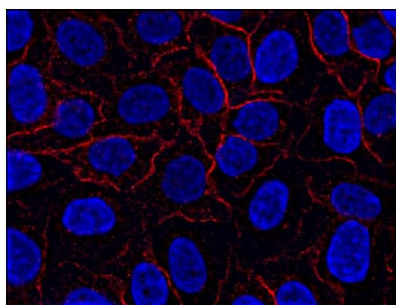


Figure 2. Immunocytochemistry staining of AHNAK using Anti-AHNAK1 Purified Monoclonal Antibody (M05378).

Immunocytochemistry staining of AHNAK1 in HeLa cell line using anti-AHNAK1 (EM-09; red). Cell nuclei stained with DAPI (blue).

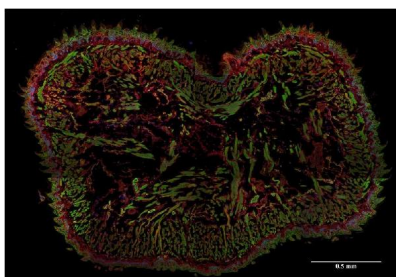


Figure 3. Immunohistochemistry validation of AHNAK using Anti-AHNAK1 Purified Monoclonal Antibody (M05378).

Immunohistochemistry staining (frozen sections) of murine tongue by anti-AHNAK1 antibody (EM-09; red). Actin filaments were decorated by phalloidin (green)

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