Datasheet for ABIN968136

anti-AKAP1 antibody (AA 66-212)

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Overview

Quantity:	50 µg
Target:	AKAP1
Binding Specificity:	AA 66-212
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This AKAP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Human AKAP149 aa. 66-212
Clone:	6-AKAP149
Isotype:	IgG1
Cross-Reactivity:	Rat (Rattus)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

Product Details

Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	AKAP1
Alternative Name:	AKAP149 (AKAP1 Products)
Background:	The targeting of protein kinases and phosphatases to cellular compartments in a timely manner may provide specificity in signal transduction events. For instance, attachment of type II cAMP-dependent Protein Kinase (PKA) to the cytoskeleton occurs through the binding of the regulatory subunit (RII) to microtubule associated-protein 2. Several proteins, such as microtubule-associated protein 2, have been identified as PKA type I/II anchoring proteins and form a family named AKAP (A-Kinase Anchor Proteins). AKAP149 is a protein of 903 amino acids. It has a PKA [RII] binding site at amino acids 355-376 preceded by a leucine zipper domain. AKAP149 mRNA has been reported to be expressed ubiquitously, with the highest levels in prostate and small intestine. AKAP149 contains a KH domain characteristic of RNA-binding proteins. Thus, AKAP149 is a PKA [RII] anchoring protein that may target this kinase to sites of RNA processing for regulation of RNA binding protein activity. This antibody is routinely tested by western blot analysis.
Molecular Weight:	149 kDa
Pathways:	Synaptic Membrane

Application Details

Comment:	Related Products: ABIN968535, ABIN967389
Restrictions:	For Research Use only

Handling

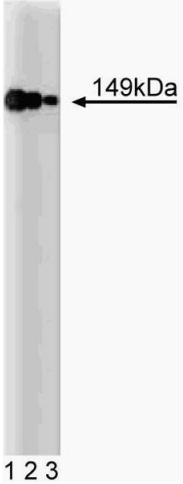
Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

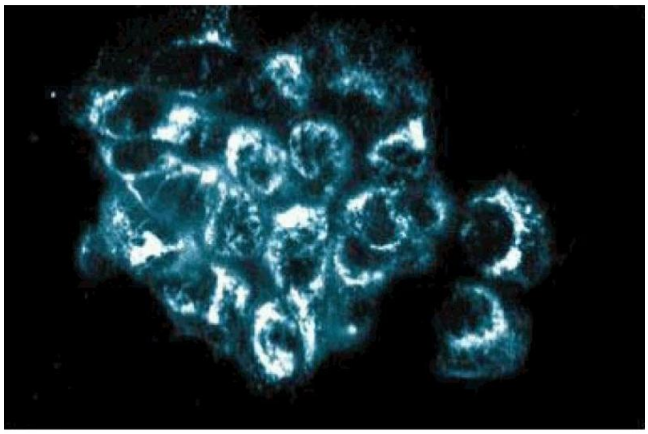
Publications

Product cited in:	Schillace, Andrews, Liberty, Davey, Carr: "Identification and characterization of myeloid translocation gene 16b as a novel a kinase anchoring protein in T lymphocytes." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 168, Issue 4, pp. 1590-9, (2002) (PubMed). Tanji, Yamamoto, Yorioka, Kohno, Kikuchi, Kikuchi: "A-kinase anchoring protein AKAP220 binds to glycogen synthase kinase-3beta (GSK-3beta) and mediates protein kinase A-dependent inhibition of GSK-3beta." in: **The Journal of biological chemistry**, Vol. 277, Issue 40, pp. 36955-61, (2002) (PubMed). Steen, Collas: "Mistargeting of B-type lamins at the end of mitosis: implications on cell survival and regulation of lamins A/C expression." in: **The Journal of cell biology**, Vol. 153, Issue 3, pp. 621-6, (2001) (PubMed). DellAcqua, Scott: "Protein kinase A anchoring." in: **The Journal of biological chemistry**, Vol. 272, Issue 20, pp. 12881-4, (1997) (PubMed). Trendelenburg, Hummel, Riecken, Hanski: "Molecular characterization of AKAP149, a novel A kinase anchor protein with a KH domain." in: **Biochemical and biophysical research communications**, Vol. 225, Issue 1, pp. 313-9, (1996) (PubMed).



Western Blotting

Image 1. Western blot analysis of AKAP149 on a HeLa cell lysate (Human cervical epitheloid carcinoma, ATCC CCL-2.2). Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the anti- AKAP149 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of A431 cells (Human epithelial carcinoma, ATCC CRL-1555).

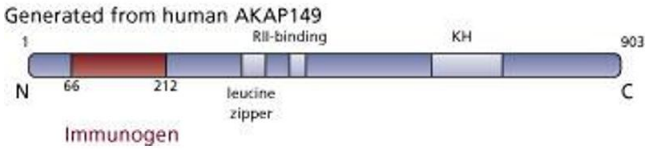


Image 3.

