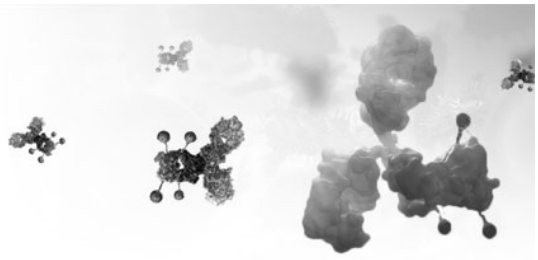

Anti-AKAP9 monoclonal antibody, clone 8F23 (DCABH-10472)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. Alternate splicing of this gene results in at least two isoforms that localize to the centrosome and the Golgi apparatus, and interact with numerous signaling proteins from multiple signal transduction pathways. These signaling proteins include type II protein kinase A, serine/threonine kinase protein kinase N, protein phosphatase 1, protein phosphatase 2a, protein kinase C-epsilon and phosphodiesterase 4D3.
Immunogen	AKAP9 (NP_671700, 3812 a.a. ~ 3911 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human
Clone	8F23
Conjugate	Unconjugated
Applications	Western Blot (Recombinant protein); Immunofluorescence; ELISA
Sequence Similarities	EKTDSFYHSSGGLELYGEPRHTTYRSRSDLDYIRSPLPFQNRYPGTPADFNPGSLACSQL QNYDPDRALTDYITRLEALQRRLGTIQSGSTTQFHAGMRR
Size	100 µg
Buffer	In 1x PBS, pH 7.4

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Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	AKAP9 A kinase (PRKA) anchor protein (yotiao) 9 [Homo sapiens]
Official Symbol	AKAP9
Synonyms	AKAP9; A kinase (PRKA) anchor protein (yotiao) 9; A-kinase anchor protein 9; A kinase anchor protein; 350kDa; A kinase anchoring protein 450; AKAP9 BRAF fusion protein; AKAP120 like protein; AKAP350; AKAP450; centrosome and golgi localized protein; CG NAP; HYPERION; KIAA0803; kinase N associated protein; MU RMS 40.16A; PPP1R45; PRKA9; protein kinase A anchoring protein 9; protein phosphatase 1; regulatory subunit 45; YOTIAO; protein yotiao; protein hyperion; AKAP 120-like protein; AKAP9-BRAF fusion protein; kinase N-associated protein; A-kinase anchor protein 350 kDa; A-kinase anchor protein 450 kDa; protein phosphatase 1, regulatory subunit 45; centrosome- and Golgi-localized PKN-associated protein; AKAP-9; CG-NAP; MU-RMS-40.16A;
Entrez Gene ID	10142
Protein Refseq	NP_005742
UniProt ID	Q5GIA7
Chromosome Location	7q21-q22
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; CREB phosphorylation through the activation of CaMKII, organism-specific biosystem; CREB phosphorylation through the activation of Ras, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle, Mitotic, organism-specific biosystem; Centrosome maturation, organism-specific biosystem; G Protein Signaling Pathways, organism-specific biosystem.
Function	kinase activity; protein binding; receptor binding;

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