10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AKAP13 Antibody (monoclonal) (M10)

Mouse monoclonal antibody raised against a partial recombinant AKAP13.
Catalog # AT1085a

Product Information

Application	WB, IHC, E
Primary Accession	Q12802
Other Accession	NM_006738
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	3D6
Calculated MW	307550

Additional Information

Gene ID	11214
Other Names	A-kinase anchor protein 13, AKAP-13, AKAP-Lbc, Breast cancer nuclear receptor-binding auxiliary protein, Guanine nucleotide exchange factor Lbc, Human thyroid-anchoring protein 31, Lymphoid blast crisis oncogene, LBC oncogene, Non-oncogenic Rho GTPase-specific GTP exchange factor, Protein kinase A-anchoring protein 13, PRKA13, p47, AKAP13, BRX, HT31, LBC
Target/Specificity	AKAP13 (NP_006729, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	AKAP13 Antibody (monoclonal) (M10) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

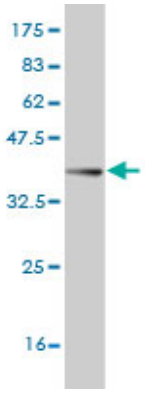
The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. Alternative splicing of this gene results in at least 3 transcript variants encoding different isoforms containing a dbl oncogene homology (DH) domain and a pleckstrin homology (PH) domain. The DH domain is associated with guanine nucleotide exchange activation for the Rho/Rac family of small GTP binding proteins, resulting in the conversion of the inactive GTPase to the active form capable of transducing signals. The PH domain has

multiple functions. Therefore, these isoforms function as scaffolding proteins to coordinate a Rho signaling pathway and, in addition, function as protein kinase A-anchoring proteins.

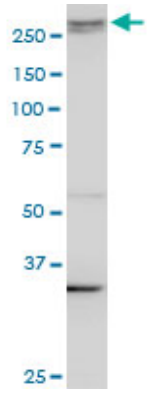
References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.Degree of predicted minor histocompatibility antigen mismatch correlates with poorer clinical outcomes in nonmyeloablative allogeneic hematopoietic cell transplantation. Larsen ME, et al. Biol Blood Marrow Transplant, 2010 Oct. PMID 20353833.Phase II trial and prediction of response of single agent tipifarnib in patients with relapsed/refractory mantle cell lymphoma: a Groupe d'Etude des Lymphomes de l'Adulte trial. Rolland D, et al. Cancer Chemother Pharmacol, 2010 Mar. PMID 19960345.Mutation of ARHGAP9 in patients with coronary spastic angina. Takefuji M, et al. J Hum Genet, 2010 Jan. PMID 19911011.Resonance assignments of the human AKAP13-PH domain and stabilizing DH helix. Sugawara M, et al. Biomol NMR Assign, 2009 Dec. PMID 19888694.

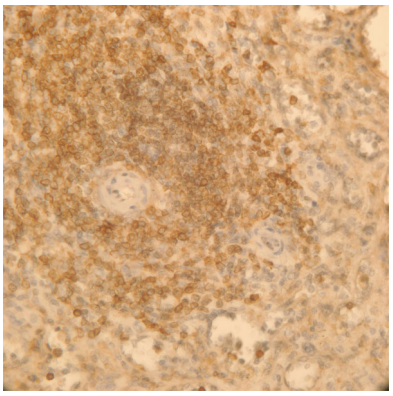
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .

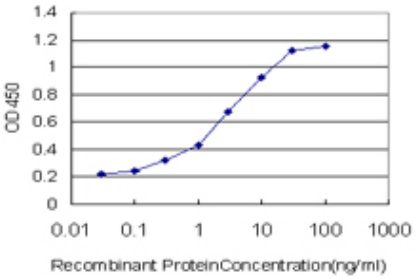


AKAP13 monoclonal antibody (M10), clone 3D6. Western Blot analysis of AKAP13 expression in HeLa.



Immunoperoxidase of monoclonal antibody to AKAP13 on formalin-fixed paraffin-embedded human spleen. [antibody concentration 1.5 ug/ml]

Detection limit for recombinant GST tagged AKAP13 is approximately 0.03ng/ml as a capture antibody.



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