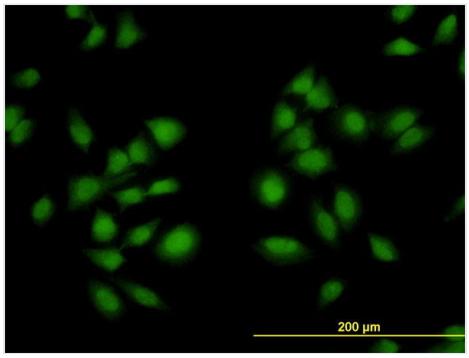
AKAP13 Antibody – Mouse Monoclonal

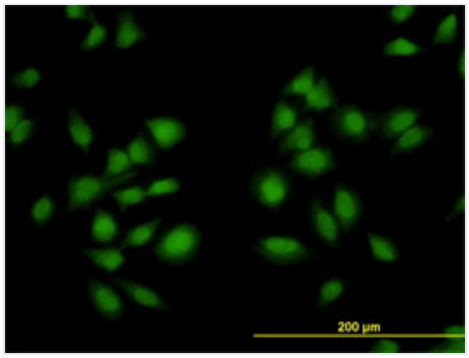
PRODUCT OVERVIEW

Product Name	AKAP13, Monoclonal Antibody
Full Product Name	AKAP13 (A Kinase (PRKA) Anchor Protein 13, AKAP-Lbc, ARHGEF13, BRX, FLJ11952, FLJ43341, HA-3, Ht31, LBC, PROTO-LB, PROTO-LBC, c-lbc
Product Gene Name	anti-AKAP13 antibody
Product Synonym Names	A Kinase (PRKA) Anchor Protein 13; AKAP-Lbc; ARHGEF13; BRX; FLJ11952; FLJ43341; HA-3; Ht31; LBC; PROTO-LB; PROTO-LBC; c-lbc
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	5B7
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified
Specificity	Recognizes AKAP13.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifu vial prior to removing the cap.
OMIM	604686
3D Structure	ModBase 3D Structure for Q12802
Immunogen	AKAP13 (NP_006729, 1aa-110aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MKLNPQQAPLYGDCVVTVLLAEEDKAEDDVVFYLVFLGSTLRHCTSTRKVSSDTLETIAPGHDCCETVKVQLCASKEGLPVFVVAEEDFHFVQDEAYDAA
Conjugate	PE
Product Categories/Family for anti-AKAP13 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-AKAP13 antibody	Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-AKAP13 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-AKAP13 antibody	The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subuni kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. Alternative splicing results in at least 3 transcript variants encoding different isoforms containing a dbl oncogene homology (DH) domain and a pleckstrin homology (PH) do domain is associated with guanine nucleotide exchange activation for the Rho/Rac family of small GTP binding proteins, resulting in the conversion of t GTPase to the active form capable of transducing signals. The PH domain has multiple functions. Therefore, these isoforms function as scaffolding pro coordinate a Rho signaling pathway and, in addition, function as protein kinase A-anchoring proteins. [provided by RefSeq]

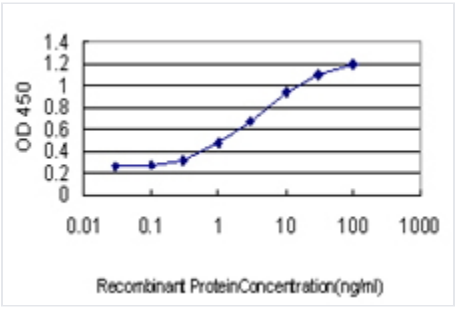
Product References and Citations for anti-AKAP13 antibody	1. The mRNA and protein expression of A-kinase anchor proteins 13 in human colorectal cancer. Hu JK, Wang L, Li Y, Yang K, Zhang P, Chen XZ, Wa ZG.Clin Exp Med. 2009 Sep 25.
Other Notes	Small volumes of anti-AKAP13 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If nece centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional may apply.
Searchable Terms for AKAP13 purchase	MBS6183926 is an antibody targeting AKAP13. Also known as AKAP13 (A Kinase (PRKA) Anchor Protein 13, AKAP-Lbc, ARHGEF13, BRX, FLJ1195 HA-3, Ht31, LBC, PROTO-LB, PROTO-LBC, c-lbc) (PE). Host: Mouse.



Immunofluorescence (IF) of anti-AKAP13 antibody
Immunofluorescence of monoclonal antibody to AKAP13 on HeLa cell. [antibody concentration 10 ug/ml]



Immunofluorescence (IF) of anti-AKAP13 antibody
Immunofluorescence of monoclonal antibody to AKAP13 on HeLa cell. [antibody concentration 10 ug/ml]



Testing Data of anti-AKAP13 antibody
Detection limit for recombinant GST tagged AKAP13 is approximately 0.03ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AKAP13. It may not necessarily be applicable to this product.

NCBI GI #	31563330
NCBI GeneID	11214
NCBI Accession #	NP_006729
UniProt Primary Accession #	Q12802
UniProt Related Accession #	Q12802
GenBank Nucleotide #	NP_006729.4
NCBI Official Full Name	A-kinase anchor protein 13 isoform 1
NCBI Official Synonym Full Names	A-kinase anchoring protein 13
NCBI Official Symbol	AKAP13

NCBI Official Synonym Symbols	BRX; LBC; p47; HA-3; Ht31; c-lbc; PRKA13; AKAP-13; AKAP-Lbc; ARHGEF13; PROTO-LB; PROTO-LBC
UniProt Protein Name	A-kinase anchor protein 13
UniProt Synonym Protein Names	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
Protein Family	A-kinase anchor protein
UniProt Gene Name	AKAP13
UniProt Synonym Gene Names	BRX; HT31; LBC; AKAP-13; LBC oncogene; PRKA13
UniProt Entry Name	AKP13_HUMAN
NCBI Protein Information	A-kinase anchor protein 13
NCBI Summary for AKAP13	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 multiple transcript variants encoding different isoforms containing c-terminal dbl oncogene homology (DH) and pleckstrin homology (PH) domains. 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, function as protein kinase A-anchoring proteins and, in addition, enhance ligand-dependent activity of estrogen receptors alpha and beta. [provided by RefSeq, Jul 2012]
UniProt Comments for AKAP13	AKAP13: Anchors cAMP-dependent protein kinase (PKA) and acts as an adapter protein to selectively couple G alpha-13 and Rho. Augments gene activation by the estrogen receptor in an element- specific and ligand-dependent manner. Activates estrogen receptor beta by a p38 MAPK-dependent pathway. Stimulates exchange activity on Rho proteins in vitro, but not on CDC42, Ras or Rac and may bind calcium ions. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Nuclear receptor co-regulator; GEFs, Rac/Rho; Nuclear export; GEFs; Oncoprotein; Adaptor/scaffold Chromosomal Location of Human Ortholog: 15q24-q25 Cellular Component: membrane; perinuclear region of cytoplasm; cytoplasm; nucleus; cytosol Molecular Function: protein binding; Rho guanyl-nucleotide exchange factor activity; signal transducer activity; Rho GTPase binding; cAMP-dependent protein kinase activity; metal ion binding; protein kinase A binding; protein complex scaffold Biological Process: regulation of small GTPase mediated signal transduction; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; small GTPase mediated signal transduction; nuclear export; regulation of protein kinase activity; protein amino acid phosphorylation
Research Articles on AKAP13	**1.** Identification of novel splicing patterns and differential gene expression in RE+/FECD- samples provides new insights and more relevant gene targets that may be protective against FECD disease in vulnerable patients with TCF4 CTG TNR expansions.
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