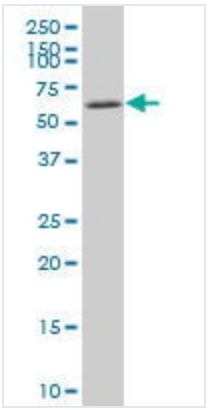
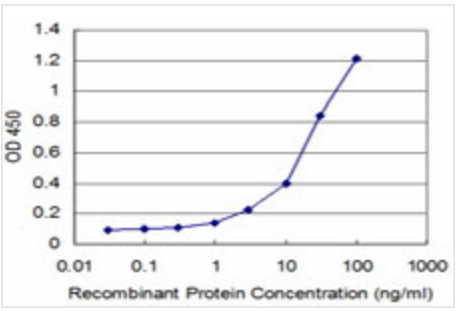
AKT2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

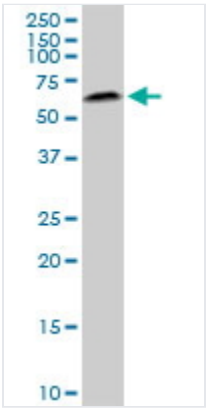
Product Name	AKT2, Monoclonal Antibody
Full Product Name	AKT2 (v-akt murine Thymoma Viral Oncogene Homolog 2, PKBB, PKBBETA, PRKBB, RAC-BETA) (PE)
Product Gene Name	anti-AKT2 antibody
Product Synonym Names	v-akt murine Thymoma Viral Oncogene Homolog 2; PKBB; PKBBETA; PRKBB; RAC-BETA
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	1B4
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 AKT2.
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 amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Immunogen	AKT2 (AAA58364, 100aa-189aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MRAIQMVANSLKQRAPGEDPMDYKCGSPSDSSTTEEMEVAVSKARAKVTMNDFDYLKLLGKGTFGKVILVREKATGRYYAMKILRKEVII
Conjugate	PE
Product Categories/Family for anti-AKT2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-AKT2 antibody	Western Blot (WB)
Application Notes for anti-AKT2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-AKT2 antibody	This gene is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains. The gene was shown to be amplified and overexpressed in 2 of 8 ovarian carcinoma cell lines and 2 of 15 primary ovarian tumors. Overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. The encoded protein is a general protein kinase capable of phophorylating several known proteins. [provided by RefSeq]
Other Notes	Small volumes of anti-AKT2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly 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 dry ice fee may apply.
Searchable Terms for AKT2 purchase	MBS6185306 is an antibody targeting AKT2. Also known as AKT2 (v-akt murine Thymoma Viral Oncogene Homolog 2, PKBB, PKBBETA, PRKBB, RAC-BETA) (PE). Host: Mouse.



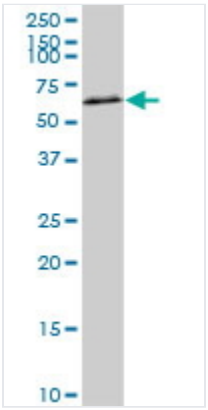
Western Blot (WB) of anti-AKT2 antibody
AKT2 monoclonal antibody (M02), clone 1B4 Western Blot analysis of AKT2 expression in Jurkat (Cat # L017V1).



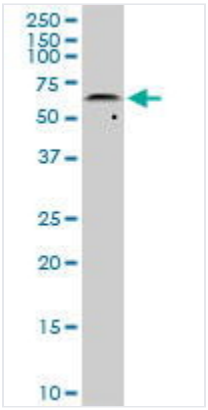
Testing Data of anti-AKT2 antibody
Detection limit for recombinant GST tagged AKT2 is approximately 1ng/ml as a capture antibody.



Western Blot (WB) of anti-AKT2 antibody
AKT2 monoclonal antibody (M02), clone 1B4. Western Blot analysis of AKT2 expression in NIH/3T3.



Western Blot (WB) of anti-AKT2 antibody
AKT2 monoclonal antibody (M02), clone 1B4. Western Blot analysis of AKT2 expression in PC-12.



Western Blot (WB) of anti-AKT2 antibody
AKT2 monoclonal antibody (M02), clone 1B4. Western Blot analysis of AKT2 expression in Raw 264.7.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AKT2. It may not necessarily be applicable to this product.

NCBI GI #	178326
NCBI GeneID	208
NCBI Accession #	AAA58364
UniProt Related Accession #	P31751

NCBI Official Full Name	protein serine/threonine kinase
NCBI Official Synonym Full Names	AKT serine/threonine kinase 2
NCBI Official Symbol	AKT2
NCBI Official Synonym Symbols	PKBB; PRKBB; HIHGHH; PKBBETA; RAC-BETA
Protein Family	Potassium channel
NCBI Protein Information	RAC-beta serine/threonine-protein kinase
NCBI Summary for AKT2	This gene is a putative oncogene encoding a protein belonging to a subfamily of serine/threonine kinases containing SH2-like (Src homology 2-like) domains, which is involved in signaling pathways. The gene serves as an oncogene in the tumorigenesis of cancer cells For example, its overexpression contributes to the malignant phenotype of a subset of human ductal pancreatic cancers. The encoded protein is a general protein kinase capable of phophorylating several known proteins, and has also been implicated in insulin signaling. [provided by RefSeq, Nov 2019]
Research Articles on AKT2	**1.** In liver fibrosis MiR-194 expression was notably lacking in activated hepatic stellate cells (HSCs) from both humans and mice. Overexpression of miR-194 suppressed HSCs cell proliferation by cell cycle arrest in G0/G1 phase. AKT2 was predicted to be a target of miR-194. Results suggest that miR-194 plays a protective role in liver cirrhosis by inhibiting the activation and proliferation of HSCs via AKT2 suppression.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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