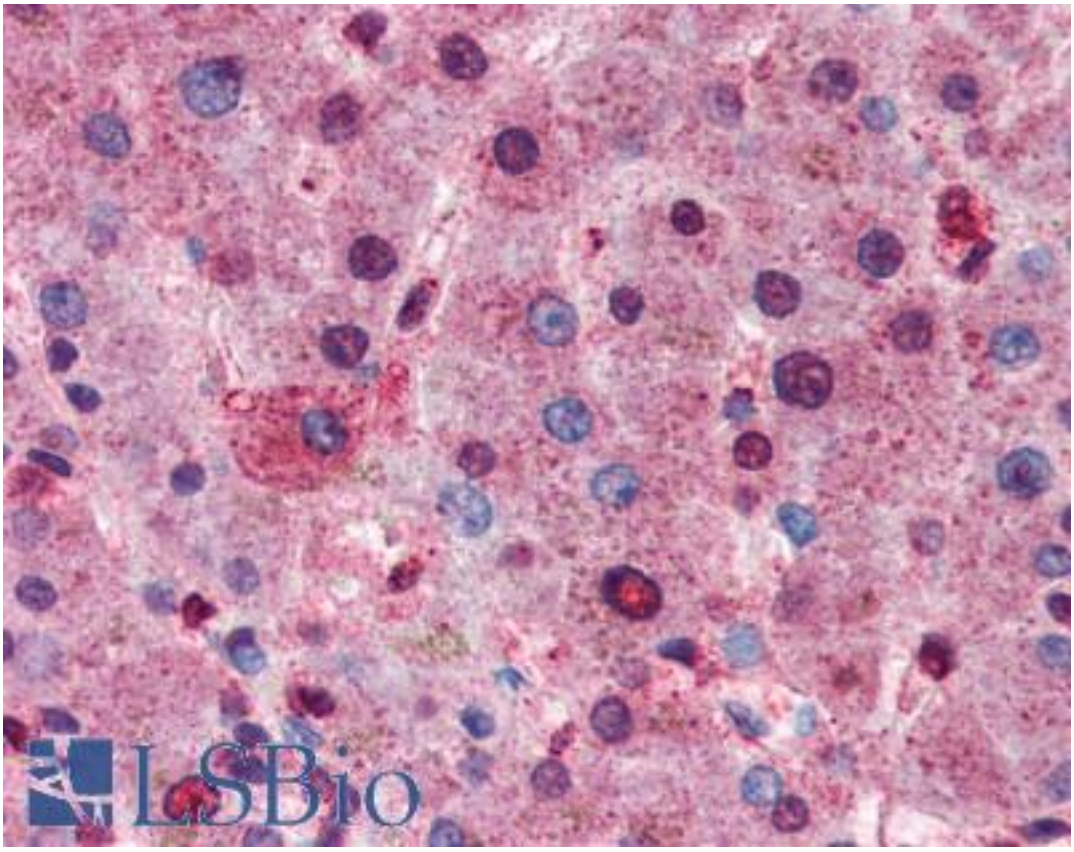
LSBio
LifeSpan BioSciences, Inc.

AKT1 + AKT2 + AKT3 Rabbit anti-Human Polyclonal (C-Terminus) Antibody - LS-B2844 - LSBio

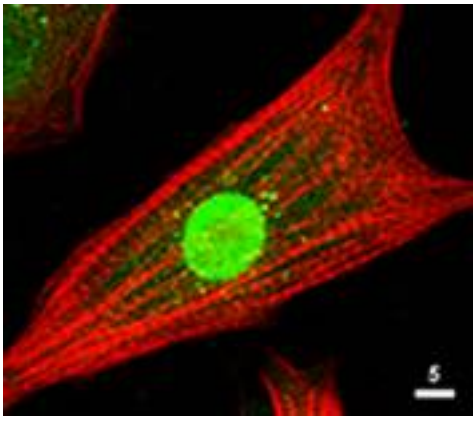
CatalogID:	LS-B2844
Validation:	This antibody replaces catalog number LS-C18882. It has been validated for use in the following assays: IHC-P.
Target:	AKT (AKT1/AKT2/AKT3)
Host	Rabbit
Clonality:	Polyclonal
Immunogen Species:	Human
Antigen Type:	Synthetic peptide
Immunogen:	Synthetic peptide from human AKT (AKT1/AKT2/AKT3).
Specificity:	Synthetic peptide C-R-P-H-F-P-Q-F-S-Y-S-A-S-G-T-A corresponding to the C-terminus (460-480) of human, rat and mouse and chicken AKT proteins conjugated to KLH using maleimide. A residue of cysteine was added to the amino terminal end to facilitate coupling.
Epitope:	C-Terminus
Reactivity:	Human, Mouse, Rat, Chicken
Purification:	Delipidated and defibrinated
Presentation:	0.02 M potassium phosphate, 0.15 M sodium chloride, pH 7.2, 0.1% sodium azide.
Recommended Storage:	Store vial at -20 C prior to opening. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20 C or below. Avoid cycles of freezing and thawing.
Usage Summary:	Immunohistochemistry: LS-B2844 was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm staining specificity. The optimal working concentration for LS-B2844 was determined to be 1:100.
Uses:	IHC - Paraffin (1:100), Immunofluorescence (1:100 - 1:1000), Western blot (1:500 - 1:2000), Immunoprecipitation, ELISA (1:2000 - 1:10000) (Optimal dilution to be determined by the researcher)
Size:	50 µl
Concentration:	75 mg/ml

Immunohistochemistry Image:



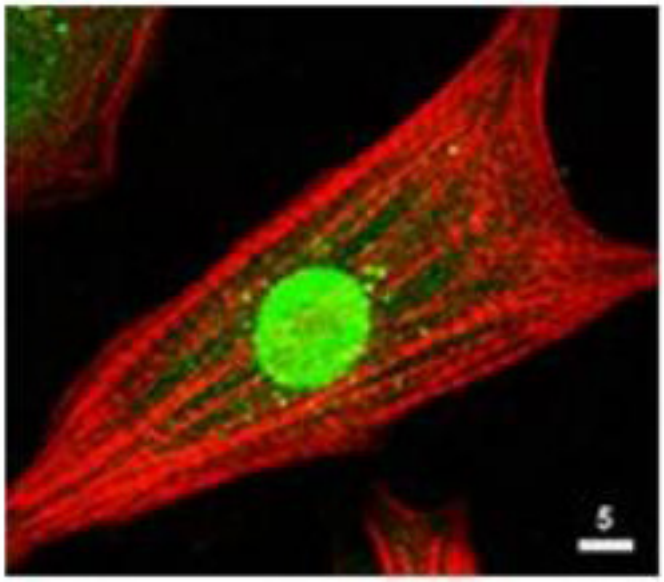
Anti-AKT1/2/3 antibody IHC of human liver. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody LS-B2844 dilution 1:100.

Immunofluorescence Image:



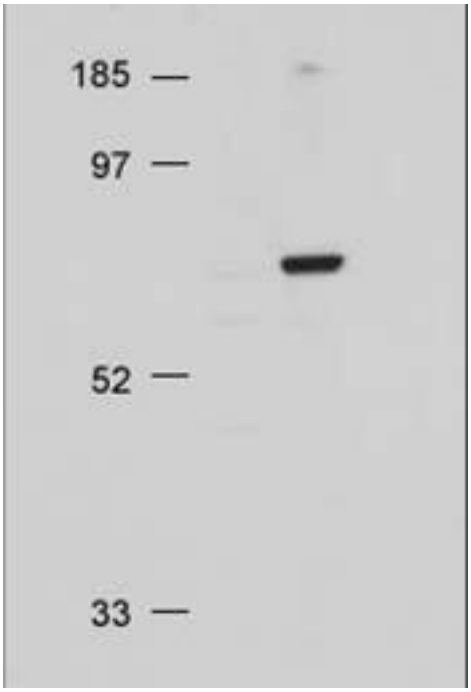
Immunofluorescence microscopy. Rabbit anti-AKT was used at a 1:80 dilution to stain cultured neonatal rat cardiomyocytes that express a nuclear-targeted AKT construct. Anti-AKT staining appears green. Actin filaments are labeled red using a Texas-red conjugated phalloidin.

Immunocytochemistry Image:



Immunofluorescence Microscopy of Rabbit Anti-AKT Antibody. Tissue: neonatal rat cardiomyocytes. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: AKT antibody at 1:80 dilution for 1 h at RT. Secondary antibody: Texas-red conjugated rabbit secondary antibody at 1:10000 for 45 min at RT. Localization: AKT is nuclear. Staining: Anti-AKT staining appears green. Actin filaments are labeled red using a Texas-red conjugated phalloidin.

Western Blot Image:



Western Blot. Rabbit anti-AKT was used at a 1:500 dilution to detect AKT by Western blot.

Western Blot Image:

Western blot of Rabbit Anti-AKT antibody. Lane 1: NIH/3T3 whole cell lysate. Load: 20 ug per lane. Primary antibody: AKT antibody at 1:500 for overnight at 4C. Secondary antibody: HRP conjugated Gt-a-Rabbit IgG (LS-C60865) at 1:10000 preceded color development using Pierce Chemical's SuperSignal substrate. Block: MOPS buffer overnight at 4C. Predicted/Observed size: 128 kDa, 128 kDa for AKT. Other band(s): none.

Requested From:	Japan