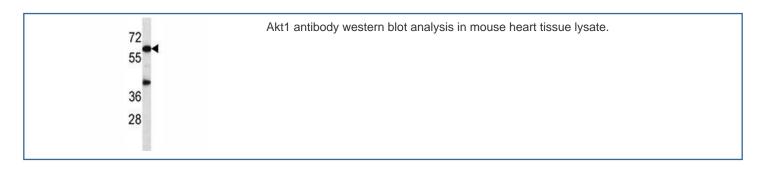


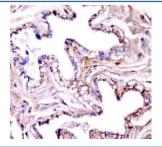
# Akt1 Antibody (F44087)

Catalog No.	Formulation	Size
F44087-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F44087-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

## **Bulk quote request**

Availability	1-3 business days
Species Reactivity	Mouse
Predicted Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P31750
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50
Limitations	This Akt1 antibody is available for research use only.





Akt1 antibody immunohistochemistry analysis in formalin fixed and paraffin embedded mouse gallbladder tissue.

## **Description**

This gene encodes the founding member of the Akt serine-threonine protein kinase gene family that also includes Akt2 and Akt3. This kinase is a major downstream effector of the phosphatidylinositol 3-kinase (PI3K) pathway that mediates the effects of various growth factors such as platelet-derived growth factor (PDGF), epidermal growth factor (EGF), insulin and insulin-like growth factor I (IGF-I). It is activated through recruitment to cellular membranes by PI3K lipid products and by phosphorylation by 3-phosphoinositide dependent kinase-1. It then further phosphorylates different downstream proteins in response to various extracellular signals and thus plays a pivotal role in mediating a variety of cellular processes, such as glucose metabolism, glycogen biosynthesis, protein synthesis and turn over, inflammatory response, cell survival (anti-apoptosis) and development. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq].

## **Application Notes**

Titration of the Akt1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

### **Immunogen**

A portion of amino acids 22-49 from the mouse protein was used as the immunogen for this Akt1 antibody.

#### **Storage**

Aliquot the Akt1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.