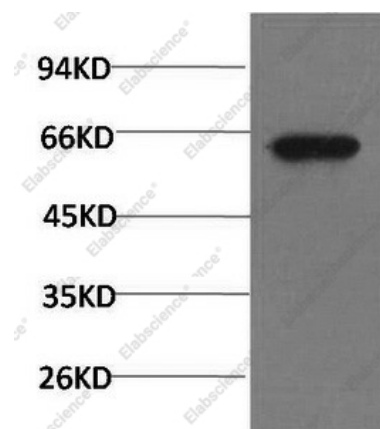
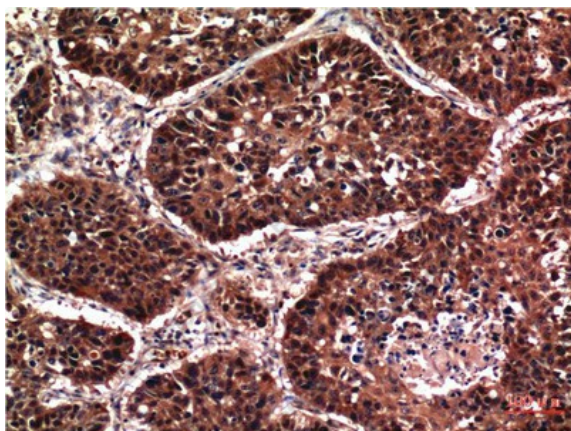


Product name:	Phospho-AKT1 (Ser473) Monoclonal Antibody
Cat number:	MAB51038
Conjugate:	Unconjugated
Size:	100µL
Clone:	7F9
Concentration:	1 mg/mL
Host:	Mouse
Isotype:	IgG
Immunogen:	Synthetic Peptide of Phospho-Akt (S473)
Reactivity:	Human
Applications:	Western Blot: 1:1000-2000, Immunohistochemistry: 1:100-200
Molecular Weight:	60 kDa
Purification:	Protein A purification
Form:	Liquid
Buffer:	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer, 0.5% protein protectant and 50% glycerol.
Storage:	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Background:	The serine-threonine protein kinase AKT1 is catalytically inactive in serum-starved primary and immortalized fibroblasts. AKT1 and the related AKT2 are activated by platelet-derived growth factor. The activation is rapid and specific, and it is abrogated by mutations in the pleckstrin homology domain of AKT1. It was shown that the activation occurs through phosphatidylinositol 3-kinase. In the developing nervous system AKT is a critical mediator of growth factor-induced neuronal survival. Survival factors can suppress apoptosis in a transcription-independent manner by activating the serine/threonine kinase AKT1, which then phosphorylates and inactivates components of the apoptotic machinery.



Western Blot analysis of PC3 cells using Phospho-AKT1 (Ser473) Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Human lung carcinoma tissue using Phospho-AKT1 (Ser473) Monoclonal Antibody at dilution of 1:200.