Phospho-Pan-Akt (Ser473) Monoclonal antibody

catalog number: **E-AB-51038**

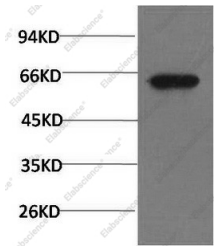
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	Synthetic Peptide of Phospho-Akt (S473) at AA range of 410-490
Host	Mouse
Isotype	Mouse IgG
Clone	7F9
Purification	Protein A purification
Buffer	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer, 0.5% protein protectant and 50% glycerol.

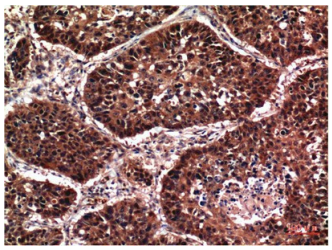
Applications	Recommended Dilution
WB	1:1000-2000
IHC	1:100-200
IF	1:50-200

Data



Western blot analysis of PC3 Cell Lysate using Phospho-Akt Ser473 Mouse mAb diluted at 1:1000.

Observed-MW:56 kDa



Immunohistochemical analysis of paraffin-embedded Human Lung Carcinoma Tissue using Phospho-Akt Ser473 Mouse mAb diluted at 1:200.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended.

Background

The serine-threonine protein kinase encoded by the AKT1 gene 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.

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