

Phospho-AKT1 (Ser473) Monoclonal Antibody

Catalog Number: E-AB-51038

1 Publications

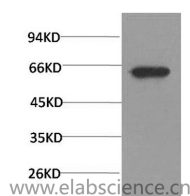


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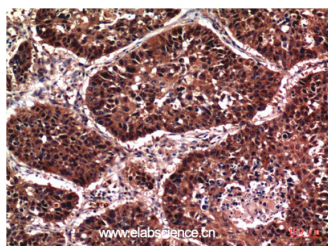
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|---------------------|---|-------------------|-------|
| Catalog No. | E-AB-51038 | Reactivity | H |
| Storage | Store at -20°C. Avoid freeze / thaw cycles. | Host | Mouse |
| Applications | WB, IHC-p | Isotype | IgG |

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

Images



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.

Immunogen Information

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|------------------|---|
| Immunogen | Synthetic Peptide of Phospho-Akt (S473) |
| Swissprot | P31749 |
| Synonyms | AKT1 |

Product Information

| | |
|--------------------|--|
| Observed MW | 60kDa |
| Buffer | PBS with 0.02% sodium azide, 0.5% BSA and 50% glycerol pH 7.4. |
| Purify | Protein A purification |
| Clone No. | Clone: 7F9 |
| Dilution | WB, 1:1000-2000; IHC, 1:100-200; |

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.

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