
Cat#: C0927www.dia-an.cn**Phospho-AKT (Ser473) Rabbit PAb**

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| Synonyms: | AKT, Phospho-AKT (Ser473), PKB, PKB ALPHA, PRKBA, Protein kinase B |
| Attribute: | Rabbit Polyclonal Antibody |
| Isotype: | IgG |
| Purity: | Antigen Affinity Purification |
| Application: | WB |
| Calculated MW: | 58kDa |
| Observed MW: | 58kDa |
| Reactivity: | irideus |
| Buffer: | PBS with 0.1% sodium azide and 50% glycerol, pH 7.2 |
| Storage: | Store at -20°C. Do not aliquot |
| Recommended Dilution: | WB: 1:1000 |

Background:

AKT is a serine/threonine kinase and it participates in the key role of the PI3K signaling pathway. Phosphatidylinositol-3 kinase (PI3K) is the key regulator of AKT activation. The recruitment of inactive AKT protein to PIP3-rich areas of the plasma membrane results in a conformational change that exposes the activation loop of AKT. AKT's activating kinase, phosphoinositide-dependent protein kinase (PDK1), is also recruited to PIP3 microdomains. PDK1 phosphorylates AKT on threonine 308 (Thr308) of the exposed activation loop, activating AKT and leading to a second phosphorylation of AKT at serine 473 (Ser473) by a kinase presumed to be mTORC2 that further potentiates kinase activity. Active AKT will phosphorylate various downstream protein targets that control cell growth and translational control and act to suppress apoptosis.