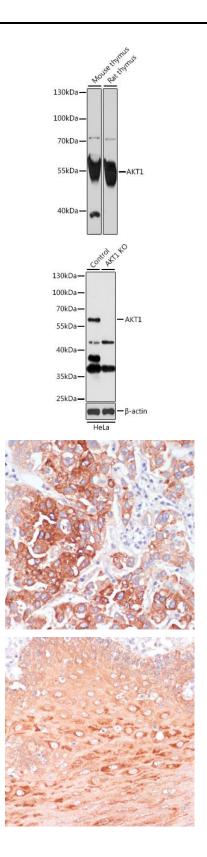
[KO Validated] AKT1 Rabbit Polyclonal Antibody

CAB16343



Product Information	Protein Background
Size:	The serine-threonine protein kinase encoded by the AKT1 gene is catalytically inactive ir
20uL, 50uL, 100uL, 200uL	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
Observed MW:	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 critica
56kDa	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
Calculated MW:	then phosphorylates and inactivates components of the apoptotic machinery. Mutations in this
48kDa/55kDa	gene have been associated with the Proteus syndrome. Multiple alternatively spliced transcript variants have been found for this gene.
Applications:	Immunogen information
WB IHC IF	Gene ID:
Reactivity:	207
Human, Mouse, Rat	Uniprot P31749
Antibody Information	Supervised
Recommended dilutions: WB 1:500 - 1:2000 IHC 1:50 - 1:100 IF 1:50 - 1:200	Synonyms: AKT; CWS6; PKB; PKB-ALPHA; PRKBA; RAC; RAC-ALPHA; AKT1
Source: Rabbit	Immunogen: A synthetic peptide of human AKT1
lsotype: lgG	Storage: Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Purification: Affinity purification



Western blot analysis of extracts of various cell lines, using AKT1 antibody (CAB16343) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (CABM00020). Exposure time: 30s.

Western blot analysis of extracts from normal (control) and AKT1 knockout (KO) HeLa cells, using AKT1 antibody (CAB16343) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (CABM00021). Exposure time: 3min.

Immunohistochemistry of paraffin-embedded human liver cancer using AKT1 antibody (CAB16343) at dilution of 1:100 (40x lens).

Immunohistochemistry of paraffin-embedded human esophageal using AKT1 antibody (CAB16343) at dilution of 1:100 (40x lens).