

Anti-AKT Mouse mAb

Purified Mouse Monoclonal Antibody

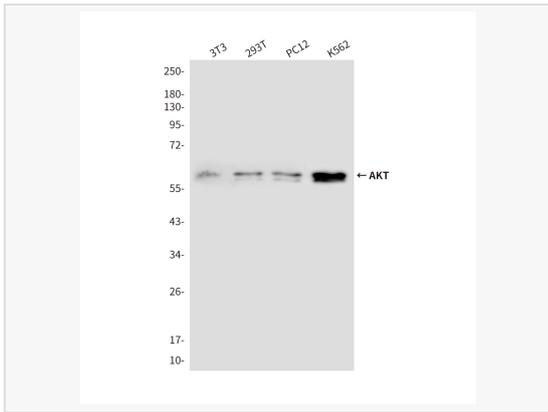
Catalog # M010542

Product Information

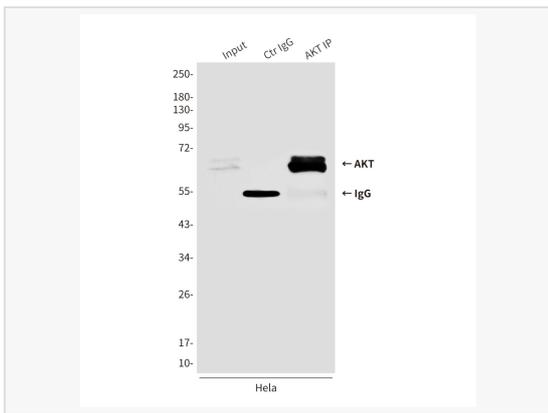
Application	WB, IP, ELISA
Reactivity	Human, Mouse (Cell), Rat
Dilution	WB 1:500~1:1,000; IP 1:20
Host	Mouse
Clonality	Monoclonal
Clone No.	31M99M18
Isotype	IgG1
Label	Unconjugated
Immunogen	Purified recombinant human AKT1 protein fragments expressed in E.coli. AKT1 interacts (via the C-terminus) with CCDC88A (via its C-terminus). Interacts with GRB10; the interaction leads to GRB10 phosphorylation thus promoting YWHAE-binding By similarity. Interacts with AGAP2 (isoform 2/PIKE-A); the interaction occurs in the presence of guanine nucleotides. Interacts with AKTIP. Interacts (via PH domain) with MTCP1, TCL1A AND TCL1B. Interacts with CDKN1B; the interaction phosphorylates CDKN1B promoting 14-3-3 binding and cell-cycle progression. Interacts with MAP3K5 and TRAF6. Interacts with BAD, PPP2R5B, STK3 and STK4. Interacts (via PH domain) with SIRT1. Interacts with SRPK2 in a phosphorylation-dependent manner. Interacts with RAF1. Interacts with TRIM13; the interaction ubiquitinates AKT1 leading to its proteasomal degradation. Interacts with TNK2 and CLK2. Interacts (via the C-terminus) with THEM4 (via its C-terminus). Interacts with and phosphorylated by PDPK1. AKT2 interacts (via PH domain) with MTCP1, TCL1A AND TCL1B. Interacts with CLK2, PBF2 and TRAF6. AKT3 interacts (via PH domain) with TCL1A; this enhances AKT3 phosphorylation and activation. Interacts with TRAF6.
Format	Buffer System: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3. Purification: Affinity Purified.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-AKT antibody [31M99M18] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

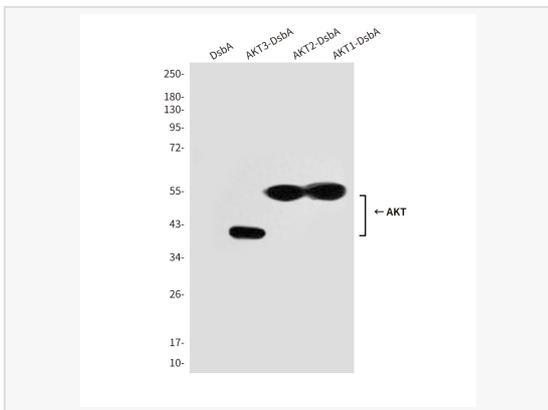
Synonyms	AKT1.
Calculated MW	Calculated MW: 56 kDa; Observed MW: 60 kDa
Uniprot ID	P31749, P31751, Q9Y243
Gene ID	207/208/10000
Background	Akt, also referred to as PKB or Rac, plays a critical role in controlling survival and apoptosis. This protein kinase is activated by insulin and various growth and survival factors to function in a wortmannin-sensitive pathway involving PI3 kinase. Akt is activated by phospholipid binding and activation loop phosphorylation at Thr308 by PDK1 and by phosphorylation within the



Western blot analysis of total AKT in 3T3, 293T, PC-12 and K562 lysates using AKT antibody.



Immunoprecipitation analysis of AKT in HeLa lysates using AKT(pan) antibody.



Western blot analysis of AKT1, AKT2, AKT3 and DSBA recombinant antigen using DSBA antibody and (Right) AKT1, AKT2 and AKT3 recombinant antigen fragments using AKT (pan) antibody.