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AKT1/2/3 Recombinant Monoclonal Antibody

StorageUpon receipt, store at -20°C or -80°C. Avoid repeated freeze.Uniprot No.P31749/P31751/Q9Y243ImmunogenA synthesized peptide derived from Human AKT1/2/3 AntibodySpecies ReactivityHumanTested ApplicationsELISA, WB, IHC, FC; Recommended dilution: WB:1:500-1:200, IEC:1:50-1:200, FC:1:50-1:200, FC:1:50-1:200, IEC:1:50-1:200, IEC:1:50-1:50-1:200, IEC:1:50-1:50-1:200, IEC:1:50-1:50-1:50, IEC:1:50-1:50-1:50, IEC:1:50-1:50-1:50, IEC:1:50-1:50, IEC:1:50, IEC	Product Code	CSB-RA272392A0HU
Uniprot No.P31749/P31751/Q9Y243ImmunogenA synthesized peptide derived from Human AKT1/2/3 AntibodySpecies ReactivityHumanTested ApplicationsELISA, WB, IHC, FC; Recommended dilution: WB:1:500-1:2000, IHC:1:50-1:200, FC:1:50-1:200FormLiquidConjugateNon-conjugatedStorage BufferRabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Purification MethodAffinity-chromatographyIsotypeRabbit IgGClonalityMonoclonalProduct TypeRecombinant AntibodyImmunogen SpeciesEpigenetics and Nuclear Signaling;Cancer;Metabolism;Signal transductionGene NamesAKT1/2/3	Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
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Tested ApplicationsELISA, WB, IHC, FC; Recommended dilution: WB:1:500-1:2000, ILC:1:50-1:200FormLiquidConjugateNon-conjugatedStorage BufferRabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Purification MethodAffinity-chromatographyIsotypeRabbit IgGClonalityMonoclonalProduct TypeRecombinant AntibodyImmunogen SpeciesHomo sapiens (Human)Research AreaEpigenetics and Nuclear Signaling;Cancer;Metabolism;Signal transductionGene NamesAKT1/2/3Clone No.16E10	Species Reactivity	Human
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Purification MethodAffinity-chromatographyIsotypeRabbit IgGClonalityMonoclonalProduct TypeRecombinant AntibodyImmunogen SpeciesHomo sapiens (Human)Research AreaEpigenetics and Nuclear Signaling;Cancer;Metabolism;Signal transductionGene NamesAKT1/2/3Clone No.16E10	Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
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ClonalityMonoclonalProduct TypeRecombinant AntibodyImmunogen SpeciesHomo sapiens (Human)Research AreaEpigenetics and Nuclear Signaling;Cancer;Metabolism;Signal transductionGene NamesAKT1/2/3Clone No.16E10	Isotype	Rabbit IgG
Product TypeRecombinant AntibodyImmunogen SpeciesHomo sapiens (Human)Research AreaEpigenetics and Nuclear Signaling;Cancer;Metabolism;Signal transductionGene NamesAKT1/2/3Clone No.16E10	Clonality	Monoclonal
Immunogen SpeciesHomo sapiens (Human)Research AreaEpigenetics and Nuclear Signaling;Cancer;Metabolism;Signal transductionGene NamesAKT1/2/3Clone No.16E10	Product Type	Recombinant Antibody
Research AreaEpigenetics and Nuclear Signaling;Cancer;Metabolism;Signal transductionGene NamesAKT1/2/3Clone No.16E10	Immunogen Species	Homo sapiens (Human)
Gene Names AKT1/2/3 Clone No. 16E10	Research Area	Epigenetics and Nuclear Signaling;Cancer;Metabolism;Signal transduction
Clone No. 16E10	Gene Names	AKT1/2/3
	Clone No.	16E10

Image



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IHC image of CSB-RA272392A0HU diluted at 1:50 and staining in paraffin-embedded human brain tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.54% DAB.



Overlay Peak curve showing Jurkat cells stained with CSB-RA272392A0HU (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific proteinprotein interactions followed by the antibody $(1\mu g/1*10^6 cells)$ for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Antirabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG $(1\mu g/1*10^6 cells)$ used under the same conditions. Acquisition of >10,000 events was performed.

Description

The AKT1/2/3 recombinant monoclonal antibody is created using in vitro expression systems, which are established by cloning the DNA sequences of AKT1/2/3 antibodies obtained from immunoreactive rabbits. The immunogen used in this process is a synthesized peptide derived from the human AKT1/2/3 protein. Subsequently, the genes encoding the AKT1/2/3 antibodies are inserted into plasmid vectors, and these recombinant plasmid vectors are transfected into host cells to facilitate antibody expression. The AKT1/2/3 recombinant monoclonal antibody then undergoes affinity-chromatography purification and is rigorously tested for functionality in ELISA, WB, IHC, and FC applications, confirming its reactivity with the human AKT1/2/3 protein.

AKT1, AKT2, and AKT3 are closely related isoforms of the AKT protein kinase family. While they share structural similarities and some functional overlap, they exhibit distinct tissue-specific expression patterns and play specialized roles in various cellular processes. AKT1 is widely expressed in various tissues and is involved in the regulation of cell growth, survival, and proliferation. AKT2 is predominantly expressed in insulin-responsive tissues such as skeletal muscle, liver, and adipose tissue, and plays a crucial role in glucose homeostasis and insulin signaling. AKT3 is expressed at higher levels in the brain and nervous system, where it contributes to neuronal development and function.