

AB-PN733

ACC1-pS29 Antibody

Phosphosite-specific rabbit polyclonal antibody for ACACA (ACC1; ACCA)



KINEXUS

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Target Protein

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|--------------------------------|-----------------------------------------------------------------------------|
| Protein Name Long: | Acetyl-CoA carboxylase 1 |
| Protein Alias: | ACAC; ACC; ACC1; ACCA; ACC-alpha; Acetyl-Coenzyme A carboxylase alpha; COA1 |
| UniProt ID: | Q13085 |
| Protein Molecular Mass: | 265,554 Da (2,346 AA) |

Immunogen

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| Antibody Immunogen Source: | Synthetic phosphopeptide patterned after human ACC1 |
| Antibody Immunogen Sequence: | EDN(pS)EDE(βA)C |
| Antibody Immunogen Description: | Corresponds to amino acid residues E26 to E32. The effect of S29 phosphorylation is unclear. This is one of the major <i>in vivo</i> phosphorylation sites in ACC1 (≥79 reports based on mass spectrometry reports recorded in PhosphoSitePlus). This human phosphosite is highly conserved in vertebrates and also found in fish. ACACA is known to be phosphorylated at this site <i>in vitro</i> by CK2a1 (CSNK2A1). |
| Antibody Target Type: | Phosphosite-specific |

Production

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| Antibody Host Species: | Rabbit |
| Antibody Type: | Polyclonal |
| Antibody Isotype: | IgG |
| Production Method: | The immunizing peptide was produced by solid phase synthesis on a multipепptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris. |
| Amount: | 25 µg |
| Antibody Concentration: | 0.3 mg/ml |
| Storage Buffer: | Phosphate buffered saline pH 7.4, 0.05% Thimerasol |
| Storage Conditions: | For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles. |
| Storage Stability: | >2 years |

Applications

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|---------------------------------------|--------------------------------------------------------------------------------|
| Product Use: | Western blotting Antibody microarray |
| Antibody Dilution Recommended: | 2 µg/ml for immunoblotting |
| Antibody Species Reactivity: | Human Chimpanzee Rhesus macaque Dog Rat Mouse Chicken Zebra fish |

This product is for *in vitro* research use only and is not intended for use in humans or animals.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987