

# AB-PN629

## NCoA3-pS867 Antibody

Phosphosite-specific rabbit polyclonal antibody for NCOA3 (SRC-3). This phosphoserine-site antibody is highly specific for phosphoserine in the phosphosite.

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### Target Protein

|                                |                                                                                                                                                                                                                                                                                                                 |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Name Long:</b>      | Nuclear receptor coactivator 3                                                                                                                                                                                                                                                                                  |
| <b>Protein Alias:</b>          | ACTR; AIB1; AIB-1; Amplified in breast cancer-1 protein; BHLHe42; CAGH16; CBP-interacting protein; KAT13B; NCO3; NCoA-3; P/CIP; PCIP; RAC3; RAC-3; Receptor-associated coactivator 3; SRC3; SRC-3; Steroid receptor coactivator protein 3; Thyroid hormone receptor activator molecule 1; TNRC16; TRAM1; TRAM-1 |
| <b>UniProt ID:</b>             | Q9Y6Q9                                                                                                                                                                                                                                                                                                          |
| <b>Protein Molecular Mass:</b> | 155,293 Da (1,424 AA)                                                                                                                                                                                                                                                                                           |

### Immunogen

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <b>Antibody Immunogen Source:</b>      | Synthetic phosphopeptide patterned after human NCoA3                                                                                                                                                                                                                                                                                                                                                    |
| <b>Antibody Immunogen Sequence:</b>    | CSVGS(pS)PPVK                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Antibody Immunogen Description:</b> | Corresponds to amino acid residues S863 to K871. S867 phosphorylation inhibits binding to ER-alpha. This is one of the less major <i>in vivo</i> phosphorylation sites in NCOA3 ( $\geq 12$ reports from high throughput mass spectrometry studies recorded in PhosphoSitePlus). NCOA3 is known to be phosphorylated at this site <i>in vitro</i> by CDK1 (CDC2), JNK1 (MAPK8), and p38a MAPK (MAPK14). |
| <b>Antibody Target Type:</b>           | Phosphosite-specific                                                                                                                                                                                                                                                                                                                                                                                    |

### Production

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Antibody Host Species:</b>  | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Antibody Type:</b>          | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Antibody Isotype:</b>       | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Production Method:</b>      | The immunizing peptide was produced by solid phase synthesis on a multipеп peptide 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. |
| <b>Amount:</b>                 | 25 $\mu$ g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Antibody Concentration:</b> | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage Buffer:</b>         | Phosphate buffered saline pH 7.4, 0.05% Thimerasol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Conditions:</b>     | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Stability:</b>      | >2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Applications

|                                       |                                                      |
|---------------------------------------|------------------------------------------------------|
| <b>Product Use:</b>                   | Western blotting   Antibody microarray               |
| <b>Antibody Dilution Recommended:</b> | 2 µg/ml for immunoblotting                           |
| <b>Antibody Species Reactivity:</b>   | Human   Rhesus macaque   Dog   Rat   Platypus   Frog |

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