

**AIB1 (RAC3/NCOA3) Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP1082b**

### Specification

#### **AIB1 (RAC3/NCOA3) Antibody (C-term) Blocking peptide - Product Information**

Primary Accession [Q9Y6Q9](#)

#### **AIB1 (RAC3/NCOA3) Antibody (C-term) Blocking peptide - Additional Information**

Gene ID 8202

##### **Other Names**

Nuclear receptor coactivator 3, NCoA-3, ACTR, Amplified in breast cancer 1 protein, AIB-1, CBP-interacting protein, pCIP, Class E basic helix-loop-helix protein 42, bHLHe42, Receptor-associated coactivator 3, RAC-3, Steroid receptor coactivator protein 3, SRC-3, Thyroid hormone receptor activator molecule 1, TRAM-1, NCOA3, AIB1, BHLHE42, RAC3, TRAM1

##### **Target/Specificity**

The synthetic peptide sequence used to generate the antibody <a href=/product/products/AP1082b>AP1082b</a> was selected from the C-term region of human NCOA3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

##### **Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

##### **Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

##### **Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

#### **AIB1 (RAC3/NCOA3) Antibody (C-term) Blocking peptide - Protein Information**

**Name** NCOA3

**Synonyms** AIB1, BHLHE42, RAC3, TRAM1

##### **Function**

Nuclear receptor coactivator that directly binds nuclear receptors and stimulates the transcriptional activities in a hormone- dependent fashion. Plays a central role in creating a multisubunit coactivator complex, which probably acts via remodeling of chromatin. Involved in the coactivation of different nuclear receptors, such as for steroids (GR and ER), retinoids (RARs and RXRs), thyroid hormone (TRs), vitamin D3 (VDR) and prostanoids (PPARs). Displays histone acetyltransferase activity. Also involved in the coactivation of the NF-kappa-B pathway via its interaction with the NFKB1 subunit.

**Cellular Location**

Cytoplasm. Nucleus. Note=Mainly cytoplasmic and weakly nuclear. Upon TNF activation and subsequent phosphorylation, it translocates from the cytoplasm to the nucleus

**Tissue Location**

Widely expressed. High expression in heart, skeletal muscle, pancreas and placenta. Low expression in brain, and very low in lung, liver and kidney

**AIB1 (RAC3/NCOA3) Antibody (C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**AIB1 (RAC3/NCOA3) Antibody (C-term) Blocking peptide - Images****AIB1 (RAC3/NCOA3) Antibody (C-term) Blocking peptide - Background**

NCOA3 is a nuclear receptor coactivator that interacts with nuclear hormone receptors to enhance their transcriptional activator functions. The encoded protein has histone acetyltransferase activity and recruits p300/CBP-associated factor and CREB binding protein as part of a multisubunit coactivation complex. This protein is initially found in the cytoplasm but is translocated into the nucleus upon phosphorylation.

**AIB1 (RAC3/NCOA3) Antibody (C-term) Blocking peptide - References**

Burwinkel, B., et al., Clin. Cancer Res. 11(6):2169-2174 (2005).Tilli, M.T., et al., Mol. Endocrinol. 19(3):644-656 (2005).Labhart, P., et al., Proc. Natl. Acad. Sci. U.S.A. 102(5):1339-1344 (2005).Beausoleil, S.A., et al., Proc. Natl. Acad. Sci. U.S.A. 101(33):12130-12135 (2004).Reiter, R., et al., Oncogene 23(2):403-409 (2004).