Datasheet for ABIN968368

anti-NCOA3 antibody (AA 376-389)

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Overview

Quantity:	150 µg
Target:	NCOA3
Binding Specificity:	AA 376-389
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NCOA3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human AIB-1 aa. 376-389
Clone:	34-AIB
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	NCOA3
Alternative Name:	AIB-1 (NCOA3 Products)
Background:	Signal transduction via nuclear hormone receptors is important for cell growth and differentiation, development, and homeostasis. Nuclear hormone receptors are ligand-activated transcription factors that modulate target gene expression. These ligand/receptor complexes also interact with transcriptional coactivators which enhance ligand-dependent transcription. Various classes of coactivators have been identified, including SRC-1 and its related proteins, such as TIF-2/GRIP-1, RIP140, AIB-1, and TIF-1alpha and -1beta. AIB-1 (Amplified In Breast cancer-1) is also known as pCIP, RAC3, and TRAM-1. It interacts with estrogen receptor (ER) and is overexpressed in breast cancer biopsies and several breast and ovarian cancer cell lines. Similar to SRC-1 and TIF2, AIB-1 contains a basic helix-loop-helix (bHLH) domain followed by a PAS (Per/Arnt/Sim) region, serine and threonine rich regions, and a charged cluster. In addition, AIB-1 contains three copies of the conserved LXXLL motif which is critical to its interaction with the nuclear receptor. Thus, AIB-1 is a coactivator of nuclear receptors that may participate in the development of steroid-dependent cancers. Synonyms: Amplified In Breast cancer-1, pCIP, RAC3, TRAM-1
Molecular Weight:	160 kDa
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Regulation of Lipid Metabolism by PPARalpha

Application Details

Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:

Louie, Yang, Ma, Xu, Zou, Kung, Chen: "Androgen-induced recruitment of RNA polymerase II to a nuclear receptor-p160 coactivator complex." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 100, Issue 5, pp. 2226-30, (2003) (PubMed).

Lauritsen, List, Reiter, Wellstein, Riegel: "A role for TGF-beta in estrogen and retinoid mediated regulation of the nuclear receptor coactivator AIB1 in MCF-7 breast cancer cells." in: **Oncogene**, Vol. 21, Issue 47, pp. 7147-55, (2002) (PubMed).

Reiter, Wellstein, Riegel: "An isoform of the coactivator AIB1 that increases hormone and growth factor sensitivity is overexpressed in breast cancer." in: **The Journal of biological chemistry**, Vol. 276, Issue 43, pp. 39736-41, (2001) (PubMed).

Eng, Barsalou, Akutsu, Mercier, Zechel, Mader, White: "Different classes of coactivators recognize distinct but overlapping binding sites on the estrogen receptor ligand binding domain. " in: **The Journal of biological chemistry**, Vol. 273, Issue 43, pp. 28371-7, (1998) (PubMed).

Anzick, Kononen, Walker, Azorsa, Tanner, Guan, Sauter, Kallioniemi, Trent, Meltzer: "AIB1, a steroid receptor coactivator amplified in breast and ovarian cancer." in: **Science (New York, N.Y.)**, Vol. 277, Issue 5328, pp. 965-8, (1997) (PubMed).

Western Blotting

Image 1.

Western Blotting

Image 2. Western blot analysis of AIB-1 on a Jurkat cell lysate (Human T-cell leukemia, ATCC TIB-152). Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti- AIB-1 antibody.

Image 3.