Technical Data Sheet Purified Mouse Anti- AIB-1

Product Information

Material Number:	611105
Alternate Name:	Amplified In Breast cancer-1; pCIP; RAC3; TRAM-1
Size:	150 µg
Concentration:	250 µg/ml
Clone:	34/AIB-1
Immunogen:	Human AIB-1 aa. 376-389
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat
Target MW:	160 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and $\leq 0.09\%$ sodium azide.

Description

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-1 α and -1 β . 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.



Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

Application Notes

A	Application					
	Western blot	Routinely Tested				
	Immunofluorescence	Tested During Development				

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Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611451	Jurkat Cell Lysate	500 μg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

- 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
- 2. Please refer to www.bdbiosciences.com/pharmingen/protocols 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.

References

Anzick SL, Kononen J, Walker RL, et al. AIB1, a steroid receptor coactivator amplified in breast and ovarian cancer. *Science*. 1997; 277(5328):965-968.(Biology) Eng FC, Barsalou A, Akutsu N, et al. Different classes of coactivators recognize distinct but overlapping binding sites on the estrogen receptor ligand binding domain. *J Biol Chem*. 1998; 273(43):28371-28377.(Biology)

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Louie MC, Yang HQ, Ma AH, et al. Androgen-induced recruitment of RNA polymerase II to a nuclear receptor-p160 coactivator complex. Proc Natl Acad Sci U S A. 2003; 100(5):2226-2230. (Biology: Western blot)

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