



Mouse anti-Rat AIM1 monoclonal antibody, clone 7/BJN-2 (CABT-B9176)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Rat AIM-1 aa. 2-124
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat
Clone	7/BJN-2
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IF
Format	Liquid
Concentration	250 µg/ml
Size	50 µg, 150 µg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	The mitotic phase of the cell cycle is a complex process that ensures the fidelity of
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chromosome segregation. During the final stage of mitosis (telophase), segregated chromosomes become less dense and nuclear membranes surround the two sets of daughter chromosomes. Simultaneously, the separation and segregation of the cytoplasm (cytokinesis) ensures complete division and formation of two identical daughter cells. Regulation of cytokinesis is poorly understood and errors in this process can lead to cell death or oncogenesis. The *Drosophila* serine/threonine protein kinase Aurora and the *S. cerevisiae* Ipl1 kinase are highly homologous and are required for progression through mitosis. Their mammalian homolog AIM-1 (also known as Aurora and Ipl1-like midbody associated protein) accumulates at the G2/M interface. During late anaphase, AIM-1 is found at the equator of central spindles. However, during telophase and cytokinesis, it is found at the midbody. Although over-expression of a kinase-inactive AIM-1 mutant disrupts formation of the cleavage furrow, nuclear division is unaffected. Thus, it is thought that AIM-1 is essential for cleavage furrowing and the onset of cytokinesis.

Keywords

AIM1; absent in melanoma 1; ST4; CRYBG1; absent in melanoma 1 protein; beta-gamma crystallin domain containing 1; beta/gamma crystallin domain-containing protein 1; suppression of tumorigenicity 4 (malignant melanoma);

GENE INFORMATION

Entrez Gene ID

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