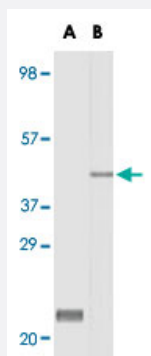


# CIB1 monoclonal antibody, clone 5A1F5E12, 5A1H7E12

Catalog # MAB8297

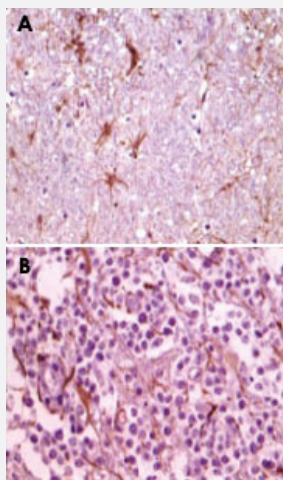
Size 100 ug

## Applications



### Western Blot

Western blot analysis using CIB1 monoclonal antibody, clone 5A1F5E12, 5A1H7E12 (Cat # MAB8297) against truncated CIB1 recombinant protein (Lane 1) and A-431 cell lysate (Lane 2).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human thalamus tissue (A) and glioma tissue (B), showing membrane localization using CIB1 monoclonal antibody, clone 5A1F5E12, 5A1H7E12 (Cat # MAB8297) with DAB staining.

## Specification

|                     |  |
|---------------------|--|
| Product Description | Mouse monoclonal antibody raised against partial recombinant CIB1. |
| Immunogen           | Recombinant protein corresponding to truncated human CIB1.         |
| Host                | Mouse  |
| Reactivity          | Human  |

|                     |  |
|---------------------|--|
| Form                | Liquid   |
| Recommend Usage     | Western Blot (1:500-1:2000)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500-1:2000)<br>Immunohistochemistry (Frozen sections) (1:500-1:2000)<br>ELISA (1:10000)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In PBS, pH 7.2 (50% glycerol, 0.01% sodium azide)  |
| Storage Instruction | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.   |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.   |

## Applications

- Western Blot

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- Immunohistochemistry (Frozen sections)

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — CIB1

|                  |   |
|------------------|---|
| Entrez GeneID    | <a href="#">10519</a>                     |
| Gene Name        | CIB1                                      |
| Gene Alias       | CIB, KIP, KIP1, SIP2-28                   |
| Gene Description | calcium and integrin binding 1 (calmyrin) |
| Omim ID          | <a href="#">602293</a>                    |
| Gene Ontology    | <a href="#">Hyperlink</a>                 |

### Gene Summary

The protein encoded by this gene is a member of the calcium-binding protein family. The specific function of this protein has not yet been determined; however this protein is known to interact with DNA-dependent protein kinase and may play a role in kinase-phosphatase regulation of DNA end joining. This protein also interacts with integrin alpha(IIb)beta(3), which may implicate this protein as a regulatory molecule for alpha(IIb)beta(3). [provided by RefSeq]

### Other Designations

DNA-dependent protein kinase interacting protein|Snk interacting protein 2-28|calcium and integrin binding 1|calcium and integrin binding protein|calcium and integrin binding, protein kinase interacting protein|calmyrin

## Publication Reference

- [The interaction between calcium- and integrin-binding protein 1 and the alphaIIb integrin cytoplasmic domain involves a novel C-terminal displacement mechanism.](#)

Yamniuk AP, Ishida H, Vogel HJ.

The Journal of Biological Chemistry 2006 Sep; 281(36):26455.

- [CIB1, a ubiquitously expressed Ca<sup>2+</sup>-binding protein ligand of the InsP3 receptor Ca<sup>2+</sup> release channel.](#)

White C, Yang J, Monteiro MJ, Foscett JK.

The Journal of Biological Chemistry 2006 Jul; 281(30):20825.

- [Structural and biochemical characterization of CIB1 delineates a new family of EF-hand-containing proteins.](#)

Gentry HR, Singer AU, Betts L, Yang C, Ferrara JD, Sondek J, Parise LV.

The Journal of Biological Chemistry 2005 Mar; 280(9):8407.

## Disease

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- [Diabetes Mellitus](#)
- [Edema](#)