

Rabbit anti-Human CIB2 Monoclonal Antibody | anti-CIB2 antibody

Recombinant Anti-CIB2 Antibody, Rabbit Monoclonal

CATALOG # AAA255596	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA, ELISA
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PRODUCT SYNONYMS

CIB2; Monoclonal Antibody; Recombinant Anti-CIB2 Antibody; Rabbit Monoclonal; CIB2 Antibody; Rabbit MAb; calcium and integrin binding family member 2; Anti-DFNB48 Antibody; Anti-KIP2 Antibody; Anti-USH1J Antibody; anti-CIB2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	001
Specificity	Human CIB2
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CIB2 antibody	IHC (Immunohistochemistry), ELISA, ELISA
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human CIB2 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human CIB2 (rh CIB2).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human CIB2 in human brain with rabbit monoclonal antibody (1:2000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)

Immunochemical staining of human CIB2 in human heart with rabbit monoclonal antibody (1:2000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-CIB2 antibody	Calcium and integrin-binding protein 2 (CIB2) belongs to a protein family with four known members, CIB1 through CIB4, which are characterized by multiple calcium-binding EF-hand domains. Sensorineural hearing loss is genetically heterogeneous. The mutations in CIB2, which encodes a calcium-and integrin-binding protein, are associated with nonsyndromic deafness (DFNB48) and Usher syndrome type 1J (USH1J). Furthermore, in zebrafish and Drosophila melanogaster, CIB2 is essential for the function and proper development of hair cells and retinal photoreceptor cells. We also show that CIB2 is a new member of the vertebrate Usher interactome. Variants in CIB2 can underlie either Usher syndrome type I (USH1J) or nonsyndromic hearing impairment (NSHI) (DFNB48). CIB2 is widely expressed in various human and animal tissues, mainly in skeletal muscle, nervous tissue, inner ear, and retina. The CIB2 protein is responsible for maintaining Ca(2+) homeostasis in cells and interacting with integrins-transmembrane receptors essential for cell adhesion, migration, and activation of signaling pathways. Calcium signaling pathway is crucial for signal transduction in the inner ear, and integrins regulate hair cell differentiation and maturation of the stereocilia.
References	Blazejczyk M, et al. (2006) Myristoylation and membranous localization of Calmyrin2, a new member of Neuronal Calcium-Sensor proteins. FENS Forum Abstracts. 3.Hollenbach AD, et al. (2006) The EF-hand calcium-binding protein calmyrin inhibits the transcriptional and DNA-binding activity of Pax3. Biochimica et Biophysica Acta (BBA)-Gene Structure and Expression. 1574(3): 321-8.Blazejczyk M, et al. (2009) Biochemical characterization and expression analysis of a novel EF-hand Ca2+ binding protein calmyrin2 (Cib2) in brain indicates its function in NMDA receptor mediated Ca2+ signaling. Archives of Biochemistry and Biophysics. 487(1): 66-78.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453708
NCBI GeneID	10518
NCBI Accession #	NP_006374.1
NCBI GenBank Nucleotide #	NM_006383.3
UniProt Accession #	O75838
Molecular Weight	21,644 Da
NCBI Official Full Name	calcium and integrin-binding family member 2 isoform 1
NCBI Official Synonym Full Names	calcium and integrin binding family member 2
NCBI Official Symbol	CIB2
NCBI Official Synonym Symbols	KIP2; USH1J; DFNB48
NCBI Protein Information	calcium and integrin-binding family member 2; KIP 2; 2810434I23Rik; Usher syndrome 1J (autosomal recessive); DNA-dependent protein kinase catalytic subunit-interacting protein 2
UniProt Protein Name	Calcium and integrin-binding family member 2
UniProt Gene Name	CIB2
UniProt Synonym Gene Names	KIP2; KIP 2
UniProt Entry Name	CIB2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cib2-antibody-clone-001-immunohistochemistry-elisa/255596>