

**CIB2 / KIP2 Antibody (aa21-70)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS14200****Specification**

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**CIB2 / KIP2 Antibody (aa21-70) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC                    |
| Primary Accession | <a href="#">075838</a> |
| Reactivity        | Human, Mouse, Rat      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 22kDa KDa              |

**CIB2 / KIP2 Antibody (aa21-70) - Additional Information****Gene ID** 10518**Other Names**

Calcium and integrin-binding family member 2, Kinase-interacting protein 2, KIP 2, CIB2, KIP2

**Target/Specificity**

CIB2 Antibody detects endogenous levels of total CIB2 protein.

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

**Precautions**

CIB2 / KIP2 Antibody (aa21-70) is for research use only and not for use in diagnostic or therapeutic procedures.

**CIB2 / KIP2 Antibody (aa21-70) - Protein Information****Name** CIB2**Synonyms** KIP2**Function**

Calcium- and integrin-binding protein that plays a role in intracellular calcium homeostasis (By similarity). Acts as an auxiliary subunit of the sensory mechanoelectrical transduction (MET) channel in hair cells (By similarity). Essential for mechanoelectrical transduction (MET) currents in auditory hair cells and thereby required for hearing (By similarity). Regulates the function of hair cell mechanotransduction by controlling the distribution of transmembrane channel-like proteins TMC1 and TMC2, and by regulating the function of the MET channels in hair cells (By similarity). Required for the maintenance of auditory hair cell stereocilia bundle morphology and function and for hair-cell survival in the cochlea (By similarity). Critical for proper photoreceptor cell maintenance and function (By similarity). Plays a role in intracellular calcium homeostasis by decreasing ATP-induced calcium release (PubMed:<a href="http://www.uniprot.org/citations/23023331" target="\_blank">23023331</a>, PubMed:<a

href="http://www.uniprot.org/citations/26173970" target="\_blank">26173970</a>, PubMed:<a href="http://www.uniprot.org/citations/26426422" target="\_blank">26426422</a>).

#### Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q9Z309}. Cell projection, stereocilium. Photoreceptor inner segment {ECO:0000250|UniProtKB:Q9Z309}. Cell projection, cilium, photoreceptor outer segment {ECO:0000250|UniProtKB:Q9Z309}. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:Q9Z309}. Note=Colocalizes with ITGA7 at the myotendinous junctions (MTJ) and at the neuromuscular junctions (NMJ) (By similarity). Located mainly in stereocilia and at the apical surface of hair cells of the cochlea (By similarity). Localizes in the cuticular plate along and at the tip of the stereocilia of vestibular sensory hair cells (PubMed:26173970, PubMed:26426422) {ECO:0000250|UniProtKB:Q9Z309, ECO:0000269|PubMed:26173970, ECO:0000269|PubMed:26426422}

#### Tissue Location

Widely expressed (PubMed:23023331).

#### Volume

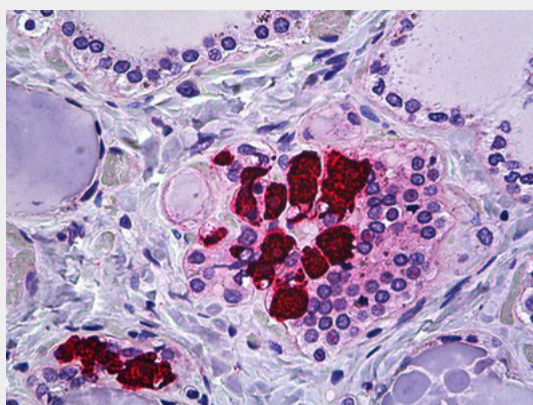
50 µl

#### CIB2 / KIP2 Antibody (aa21-70) - Protocols

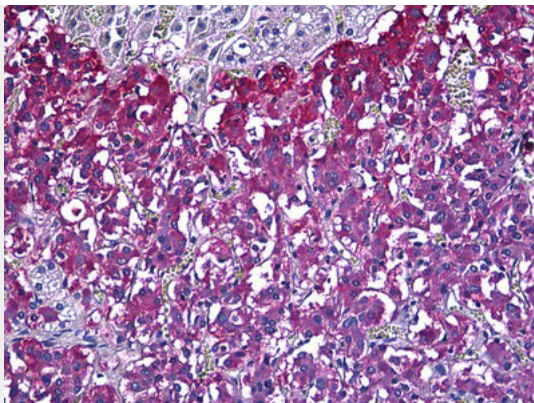
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### CIB2 / KIP2 Antibody (aa21-70) - Images



Anti-CIB2 antibody IHC of human thyroid, c-cells.



Anti-CIB2 antibody IHC of human adrenal medulla.

#### **CIB2 / KIP2 Antibody (aa21-70) - Background**

Calcium-binding protein critical for proper photoreceptor cell maintenance and function. May play a role in calcium homeostasis and participate in calcium regulation in the mechanotransduction process (By similarity).

#### **CIB2 / KIP2 Antibody (aa21-70) - References**

- Seki N.,et al.Biochim. Biophys. Acta 1444:143-147(1999).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Zody M.C.,et al.Nature 440:671-675(2006).  
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.  
Huang H.,et al.Biochem. Cell Biol. 90:646-656(2012).