

CIB1 Monoclonal Antibody

Catalog No :	YM0155
Reactivity :	Human
Applications :	WB;IHC;IF;ELISA
Target :	CIB1
Gene Name :	CIB1
Protein Name :	Calcium and integrin-binding protein 1
Human Gene Id :	10519
Human Swiss Prot No :	Q99828
Mouse Swiss Prot No :	Q9Z0F4
Immunogen :	Purified recombinant fragment of CIB1 expressed in E. Coli.
Specificity :	CIB1 Monoclonal Antibody detects endogenous levels of CIB1 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	22kD
P References :	1. Holly R. Gentry,Alex U. Singer, Laurie Betts. J. Biol. Chem., Mar 2005; 280: 8407 - 8415. 2. Carl White, Jun Yang, Mervyn J. Monteiro. J. Biol. Chem., Jul 2006; 281: 20825 – 20833.

Background :

This gene encodes a member of the EF-hand domain-containing calcium-binding superfamily. The encoded protein interacts with many other proteins, including the platelet integrin alpha-IIb-beta-3, DNA-dependent protein kinase, presenilin-2, focal adhesion kinase, p21 activated kinase, and protein kinase D. The encoded protein may be involved in cell survival and proliferation, and is associated with several disease states including cancer and Alzheimer's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2013],

Function :

function:May convert the inactive conformation of integrin alpha-IIb/beta3 to an active form through the binding to the integrin cytoplasmic domain.,similarity:Contains 2 EF-hand domains.,subunit:Monomer. Interacts with the heterodimeric integrin alpha-IIb/beta3. Interacts with the protein kinases PLK2/SNK and with the region immediately upstream of the kinase domain of DNA-PK. Interacts with PSEN2. Interacts with MYO1C.,tissue specificity:Ubiquitous.,

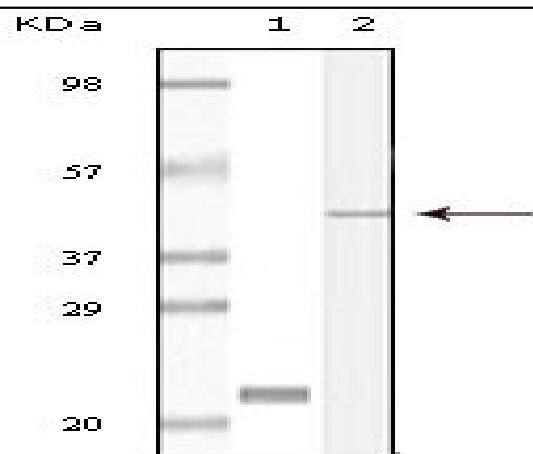
Subcellular Location :

Membrane; Lipid-anchor. Cell membrane, sarcolemma. Cell membrane. Apical cell membrane. Cell projection, ruffle membrane. Cell projection, filopodium tip. Cell projection, growth cone . Cell projection, lamellipodium . Cytoplasm. Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, perinuclear region. Nucleus . Cell projection, neuron projection . Perikaryon . Colocalized with PPP3R1 at the cell membrane of cardiomyocytes in the hypertrophic heart (By similarity). Colocalized with NBR1 to the perinuclear region. Colocalizes with TAS1R2 in apical regions of taste receptor cells. Colocalized with RAC3 in the perinuclear area and at the cell periphery. Colocalized with PAK1 within membrane ruffles during cell spreading upon readhesion to fibr

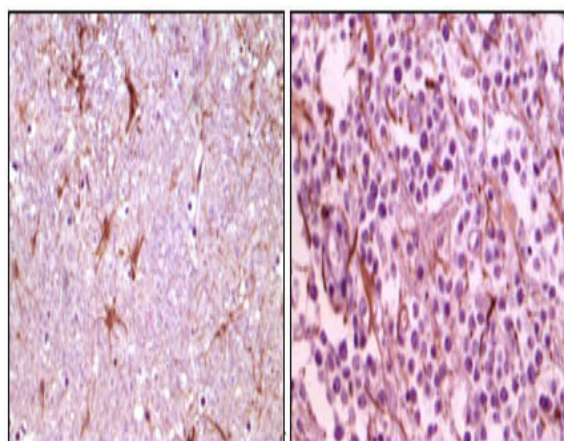
Expression :

Ubiquitously expressed. Expressed in the epidermis, hair follicles and keratinocytes (PubMed:30068544). Detected in platelets and in cell lines of megakaryocytic and erythrocytic lineages. Both isoform 1 and isoform 2 are detected in various cancer cell lines, with isoform 2 being the predominant form (at protein level).

Products Images



Western Blot analysis using CIB1 Monoclonal Antibody against truncated CIB1 recombinant protein (1) and A431 cell lysate (2).



Immunohistochemistry analysis of paraffin-embedded human thalamus (left) and glioma (right) tissue, showing membrane localization with DAB staining using CIB1 Monoclonal Antibody.