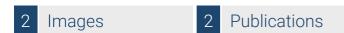


Datasheet for ABIN967577 anti-CBL antibody (pTyr774)





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Quantity:	0.1 mg	
Target:	CBL	
Binding Specificity:	pTyr774	
Reactivity:	Human	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This CBL antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))	
Product Details		
Brand:	BD Pharmingen™	
Brand: Immunogen:	BD Pharmingen™ Phosphorylated Human c-Cbl Peptide	
Immunogen:	Phosphorylated Human c-Cbl Peptide	
Immunogen: Clone:	Phosphorylated Human c-Cbl Peptide 29-c IgG1 kappa 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide	
Immunogen: Clone: Isotype:	Phosphorylated Human c-Cbl Peptide 29-c IgG1 kappa 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols.	

Target Details

Target:	CBL	
Alternative Name:	c-Cbl (CBL Products)	
Background:	Cbl (Casitas B-lineage lymphoma) was identified in the genome of a transforming retrovirus	
	from a mouse pre-B lymphoma. The cellular gene product c-Cbl is one of numerous Cbl-related	
	proteins found in vertebrate and invertebrate organisms. It is an 120-kDa adapter protein that	
	contains multiple functional domains, including a RING finger motif, a tyrosine kinase-binding	
	(TKB) domain, and a proline-rich region. The TKB domain directly interacts with specific auto-	
	phosphorylation sites in activated protein-tyrosine kinases (PTK). Through the RING finger	
	motif, c-Cbl recruits and activates an E2 ubiquitin-conjugating enzyme, thus targeting the	
	activated PTK for protein degradation. The proline-rich region contains SH3 domain-binding	
	and 14-3-3 protein-binding motifs. c-Cbl is also phosphorylated at tyrosines 700, 731, and 774	
	(Y774) by Syk- and Src-family kinases after the stimulation of some integrins and a wide variety	
	of receptors for antigens, immunoglobulins, growth factors, cytokines, and hormones. In turn,	
	the phosphorylated Y774 site interacts with the SH2 domain of the CRK adapter protein. The c-	
	Cbl adapter protein is expressed in the cytoplasm in all tissues, with especially high levels of	
	expression in hematopoietic cells. Through its many functional sites, c-Cbl plays key roles in the	
	positive and negative regulation of vital cell functions, including T Cell Receptor-mediated	
	cellular immune responses. The 29/c-Cbl monoclonal antibody recognizes the Y774-	
	phosphorylated form of human c-Cbl.	
Pathways:	TCR Signaling, Interferon-gamma Pathway, EGFR Signaling Pathway, EGFR Downregulation,	
	VEGFR1 Specific Signals	
Application Details		
Comment:	Related Products: ABIN967389, ABIN968537, ABIN968656	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	0.5 mg/mL	
Buffer:	Aqueous buffered solution containing ≤0.09 % sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	

Handling

	should be handled by trained staff only.	
Storage:	4 °C	
Storage Comment:	Store undiluted at 4°C.	
Publications		

Product cited in:

Thien, Langdon: "Cbl: many adaptations to regulate protein tyrosine kinases." in: **Nature reviews. Molecular cell biology**, Vol. 2, Issue 4, pp. 294-307, (2001) (PubMed).

Tsygankov, Teckchandani, Feshchenko, Swaminathan: "Beyond the RING: CBL proteins as multivalent adapters." in: **Oncogene**, Vol. 20, Issue 44, pp. 6382-402, (2001) (PubMed).

Images

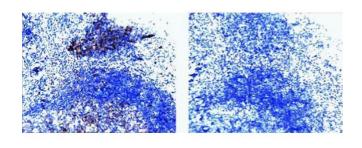
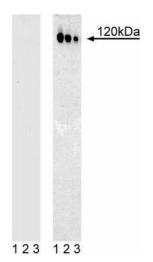


Image 1. c-Cbl (pY774) staining on tonsil. Fresh human tonsil was incubated in 5 mM Pervanadate solution for 2 hours, then fixed in formalin and processed. Following antigen retrieval with Retrievagen A buffer, the sections were either left untreated (left panel) or treated with a phosphatase to eliminate all phosphorylation (right panel). The tissue sections were stained with purified mouse anti-c-Cbl (pY774) with Hematoxylin counterstaining. Original magnification: 20X.



Western Blotting

Image 2. Western blot analysis of c-Cbl (pY774) in human T leukemia. Lysates from control (ABIN968537, left panel) and Pervanadate-treated (ABIN968656, right panel) Jurkat cells were probed with purified mouse anti-c-Cbl (pY774) monoclonal antibody at concentrations of 1.0, 0.5, and 0.25 myg/ml (Lanes 1, 2, and 3, respectively). c-Cbl (pY774) is identified as a band of 120 kDa in the treated cells.