




## Product datasheet

# APC Anti-CBL (phospho Y700) antibody [CbLY700-E1] ab278763

Recombinant

[2 Images](#)

### Overview

<b>Product name</b>	APC Anti-CBL (phospho Y700) antibody [CbLY700-E1]
<b>Description</b>	APC Rabbit monoclonal [CbLY700-E1] to CBL (phospho Y700)
<b>Host species</b>	Rabbit
<b>Conjugation</b>	APC. Ex: 645nm, Em: 660nm
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Rat <b>Predicted to work with:</b> Human 
<b>Immunogen</b>	Synthetic peptide within Human CBL (phospho Y700). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please <b>contact</b> our Scientific Support team to discuss your requirements. Database link: <a href="#">P22681</a>  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	Flow cyt: C6 cells treated with pervanadate.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information <a href="#">see here</a> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C. Store In the Dark.
<b>Storage buffer</b>	Preservative: 0.09% Sodium azide Constituents: 99.71% PBS, 0.2% BSA
<b>Purity</b>	Protein A/G purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	CbIY700-E1
<b>Isotype</b>	IgG
<b>Light chain type</b>	kappa

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab278763 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 5µl for 10 <sup>6</sup> cells.

## Target

**Function** Participates in signal transduction in hematopoietic cells. Adapter protein that functions as a negative regulator of many signaling pathways that start from receptors at the cell surface. Acts as an E3 ubiquitin-protein ligase, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and then transfers it to substrates promoting their degradation by the proteasome. Recognizes activated receptor tyrosine kinases, including PDGFA, EGF and CSF1, and terminates signaling.

**Pathway** Protein modification; protein ubiquitination.

**Involvement in disease** Defects in CBL are the cause of Noonan syndrome-like disorder (NSL) [MIM:613563]. NSL is a syndrome characterized by a phenotype reminiscent of Noonan syndrome. Clinical features are highly variable, including facial dysmorphism, short neck, developmental delay, hyperextensible joints and thorax abnormalities with widely spaced nipples. The facial features consist of triangular face with hypertelorism, large low-set ears, ptosis, and flat nasal bridge. Some patients manifest cardiac defects.

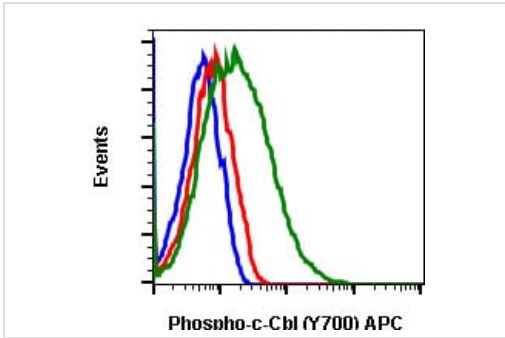
**Sequence similarities** Contains 1 Cbl-PTB (Cbl-type phosphotyrosine-binding) domain.  
Contains 1 RING-type zinc finger.  
Contains 1 UBA domain.

**Domain** The RING-type zinc finger domain mediates binding to an E2 ubiquitin-conjugating enzyme. The N-terminus is composed of the phosphotyrosine binding (PTB) domain, a short linker region and the RING-type zinc finger. The PTB domain, which is also called TKB (tyrosine kinase binding) domain, is composed of three different subdomains: a four-helix bundle (4H), a calcium-binding EF hand and a divergent SH2 domain.

**Post-translational modifications** Phosphorylated on tyrosine residues by EGFR, SYK, FYN and ZAP70 (By similarity).  
Phosphorylated on tyrosine residues by INSR.

**Cellular localization** Cytoplasm.





## Images



Flow cytometric analysis of C6 cells cell only only negative control (blue) or treated with imatinib (red) or with pervanadate (green) using ab278763.

Flow Cytometry - APC Anti-CBL (phospho Y700) antibody [CblY700-E1] (ab278763)

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

APC Anti-CBL (phospho Y700) antibody [CblY700-E1] (ab278763)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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