**Product datasheet**

**Anti-CBL (phospho Y731) antibody [EP973Y] ab52855**

**Overview**

- **Product name**: Anti-CBL (phospho Y731) antibody [EP973Y]
- **Description**: Rabbit monoclonal [EP973Y] to CBL (phospho Y731)
- **Host species**: Rabbit
- **Specificity**: ab52855 detects CBL phosphorylated on Tyrosine 731.
- **Tested applications**: Suitable for: WB, IP
  Unsuitable for: Flow Cyt, ICC or IHC-P
- **Species reactivity**: Reacts with: Mouse, Rat, Human
- **Immunogen**: A synthetic phospho-peptide corresponding to residues surrounding Tyr731 of human CBL.
- **Positive control**: Raji cell lysates.
- **General notes**: Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

**We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.**

**Properties**

- **Form**: Liquid
- **Storage instructions**: Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
- **Storage buffer**: pH: 7.20
  Preservative: 0.01% Sodium azide
  Constituents: 59% PBS, 40% Glycerol, 0.5% BSA
- **Purity**: Protein A purified
- **Clonality**: Monoclonal
- **Clone number**: EP973Y
- **Isotype**: IgG
Applications

Our Abpromise guarantee covers the use of ab52855 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td>1/2000. Detects a band of approximately 120 kDa (predicted molecular weight: 100 kDa).</td>
<td></td>
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<tr>
<td>IP</td>
<td>1/50.</td>
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Application notes

Is unsuitable for Flow Cyt, ICC or IHC-P.

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
**Western blot - Anti-CBL (phospho Y731) antibody [EP973Y] (ab52855)**

**All lanes**: Anti-CBL (phospho Y731) antibody [EP973Y] (ab52855) at 1/2000 dilution

**Lane 1**: Raji cell lysate untreated

**Lane 2**: Raji cell lysate treated with pervanadate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes**: Goat anti-rabbit HRP at 1/2000 dilution

**Predicted band size**: 100 kDa

**Observed band size**: 120 kDa

*why is the actual band size different from the predicted?*

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

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