

Product datasheet

Anti-CBL (phospho Y774) antibody [E160] ab32446

Recombinant RabMAb

[3 References](#) [3 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-CBL (phospho Y774) antibody [E160] |
| Description | Rabbit monoclonal [E160] to CBL (phospho Y774) |
| Host species | Rabbit |
| Specificity | The antibody detects Cbl phosphorylated on Tyrosine 774. |
| Tested applications | Suitable for: WB, IHC-P, ICC/IF, Flow Cyt, IP |
| Species reactivity | Reacts with: Human |
| Immunogen | A synthetic phospho-peptide corresponding to residues surrounding Tyr774 of human Cbl. |
| Positive control | Jurkat whole cell lysate (ab7899) and human cervical carcinoma tissue. |
| General notes | Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information. |

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 [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| Storage buffer | pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol, 0.05% BSA |
| Clonality | Monoclonal |
| Clone number | E160 |

Isotype

IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab32446** 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 |
|-------------|-----------|---|
| WB | | 1/1000. Detects a band of approximately 120 kDa (predicted molecular weight: 99 kDa). |
| IHC-P | | Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| ICC/IF | | 1/25. |
| Flow Cyt | | 1/20. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |
| IP | | 1/20. |

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

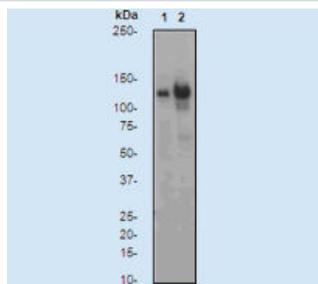
The RING-type zinc finger domain mediates binding to an E2 ubiquitin-conjugating enzyme. The N-terminus is composed of the phosphotyrosine binding (PTB) domain, a short linker region and the RING-type zinc finger. The PTB domain, which is also called TKB (tyrosine kinase binding) domain, is composed 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.



Western blot - Anti-CBL (phospho Y774) antibody [E160] (ab32446)

All lanes : Anti-CBL (phospho Y774) antibody [E160] (ab32446) at 1/1000 dilution

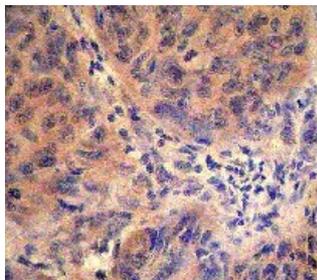
Lane 1 : Jurkat cell lysate

Lane 2 : Jurkat cell lysate + Pervanadate

Predicted band size: 99 kDa

Observed band size: 120 kDa

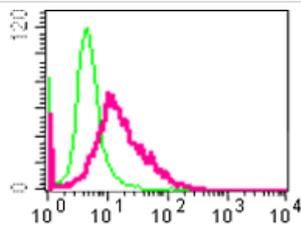
[why is the actual band size different from the predicted?](#)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CBL (phospho Y774) antibody [E160] (ab32446)

Immunohistochemical analysis of human cervical carcinoma using ab32446 at 1/25 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Flow Cytometry - Anti-CBL (phospho Y774) antibody [E160] (ab32446)

Flow cytometric analysis of permeabilized Jurkat cells, untreated (green) or Pervanadate-treated (red), using ab32446 at 1/20 dilution.

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