abcam

Product datasheet

Anti-CBL (phospho Y674) antibody [EPR2227] ab76536

Recombinant RabMAb

2 References 3 Images

Overview

Product name	Anti-CBL (phospho Y674) antibody [EPR2227]
Description	Rabbit monoclonal [EPR2227] to CBL (phospho Y674)
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB **Unsuitable for:** IHC-P or IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Jurkat cell lysate treated with pervanadate. Permeabilized Jurkat cells.
General notes	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**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR2227
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab76536 in the following tested applications.

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

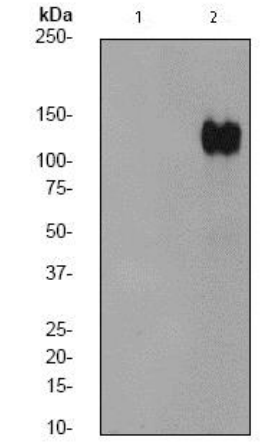
Application	Abreviews	Notes
Flow Cyt (Intra)		1/20. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000. Predicted molecular weight: 100 kDa.

Application notes Is unsuitable for IHC-P or IP.

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 Y674) antibody [EPR2227] (ab76536)

All lanes : Anti-CBL (phospho Y674) antibody [EPR2227] (ab76536) at 1/1000 dilution

Lane 1 : Jurkat cell lysate

Lane 2 : Jurkat cell lysate treated with pervanadate

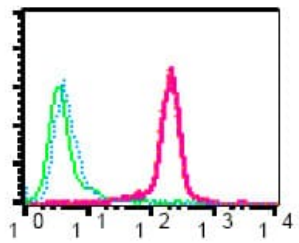
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP labelled goat anti-rabbit at 1/1000 dilution

Predicted band size: 100 kDa

Observed band size: 120 kDa



Flow Cytometry (Intracellular) - Anti-CBL (phospho Y674) antibody [EPR2227] (ab76536)

Intracellular flow cytometric analysis of permeabilized Jurkat cells, un-treated (green) or pervanadate treated (red) using ab76536 at a 1/20 dilution, and pervanadate-treated Jurkat cells using the same antibody pre-incubated with phospho-CBL peptide (blue) or non-phospho-CBL peptide (orange).

Anti-CBL (phospho Y674) antibody [EPR2227] (ab76536)

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