abcam

Product datasheet

Anti-CBL antibody [YE323] - C-terminal ab32027

KO 評価済 リコンビナント RabMAb

11 References 画像数 7

製品の概要

製品名	Anti-CBL antibody [YE323] - C-terminal
製品の詳細	Rabbit monoclonal [YE323] to CBL - C-terminal
由来種	Rabbit
アプリケーション	**適用あり:** WB, Flow Cyt (Intra), ICC/IF **適用なし:** IP
種交差性	**交差種:** Mouse, Rat, Human **交差が予測される動物種:** Chicken
免疫原	Synthetic peptide within Human CBL aa 850 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: **P22681**
エピトープ	ab32027 reacts with an epitope located in the C terminal region of CBL.
ポジティブ・コントロール	WB: HEK293T, HAP1, Jurkat, THP-1, WEHI-231, F9 and Raji cell lysates; Mouse thymus tissue lysate, Rat testis lysate, Rat thymus lysate. ICC/IF: Jurkat cells. Flow Cyt (intra): Jurkat cells.
特記事項	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**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	YE323
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab32027の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 120 kDa (predicted molecular weight: 99 kDa). **For unpurified use at 1/5000**
Flow Cyt (Intra)		1/30. For unpurified use at 1/100 **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/50. **For unpurified use at 1/100**

追加情報 Is unsuitable for IP.

ターゲット情報

機能 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.

パスウェイ Protein modification; protein ubiquitination.

関連疾患 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.

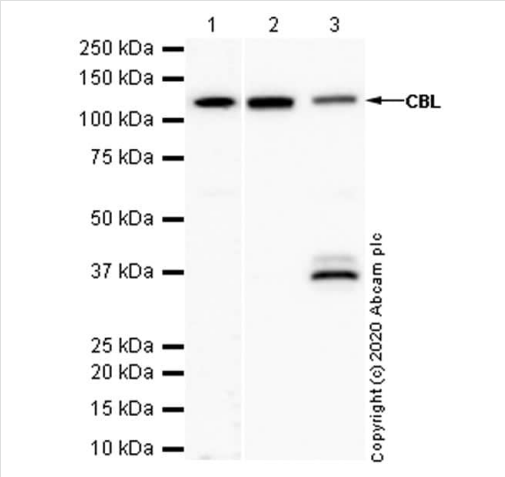
配列類似性 Contains 1 Cbl-PTB (Cbl-type phosphotyrosine-binding) domain.
Contains 1 RING-type zinc finger.
Contains 1 UBA domain.

ドメイン 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.

翻訳後修飾 Phosphorylated on tyrosine residues by EGFR, SYK, FYN and ZAP70 (By similarity).

	Phosphorylated on tyrosine residues by INSR.
細胞内局在	Cytoplasm.

画像



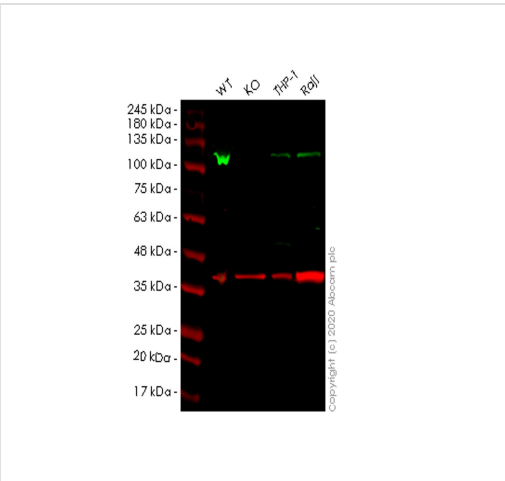
Western blot - Anti-CBL antibody [YE323] - C-terminal (ab32027)

All lanes : Anti-CBL antibody [YE323] - C-terminal (ab32027) at 1/1000 dilution

Lane 1 : Raji (Human Burkitt's lymphoma B lymphocyte) whole cell lysate at 15 µg
Lane 2 : Rat testis lysate at 20 µg
Lane 3 : Rat thymus lysate at 20 µg

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/2000 dilution

Predicted band size: 99 kDa
Observed band size: 110 kDa



Western blot - Anti-CBL antibody [YE323] - C-terminal (ab32027)

All lanes : Anti-CBL antibody [YE323] - C-terminal (ab32027) at 1/1000 dilution (unpurified)

Lane 1 : Wild-type HEK293T cell lysate
Lane 2 : CBL knockout HEK293T cell lysate
Lane 3 : THP-1 cell lysate
Lane 4 : Raji cell lysate

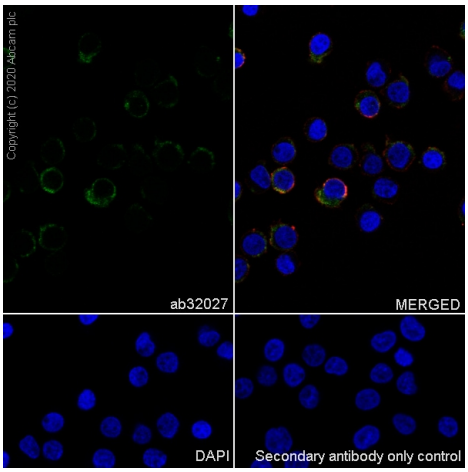
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 99 kDa
Observed band size: 110 kDa

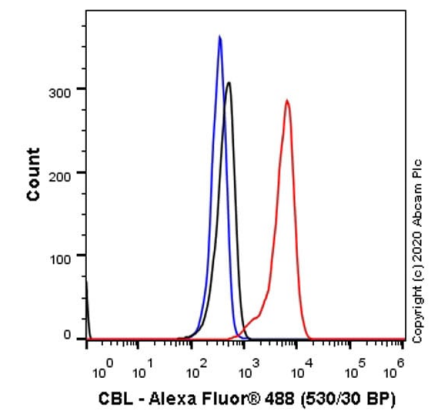
Lanes 1-4: Merged signal (red and green). Green - ab32027 observed at 110 kDa. Red - loading control **ab8245** observed at 36 kDa.

Unpurified ab32027 Anti-CBL antibody [YE323] - C-terminal was shown to specifically react with CBL in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab267245** (knockout cell lysate **ab257200**) was used. Wild-type and CBL knockout samples were subjected to SDS-PAGE. ab32027 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



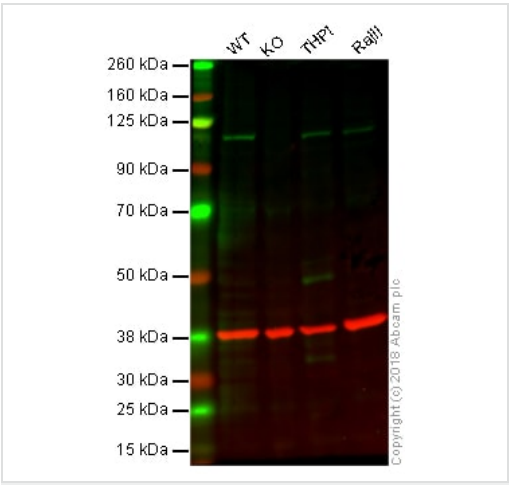
Immunocytochemistry/ Immunofluorescence - Anti-CBL antibody [YE323] - C-terminal (ab32027)

Immunocytochemistry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling CBL with purified ab32027 at 1/50 dilution (4.26 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-CBL antibody [YE323] - C-terminal (ab32027)

Intracellular Flow Cytometry analysis of Jurkat (Human T cell leukemia T lymphocyte) cells labeling CBL with purified ab32027 at 1/30 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

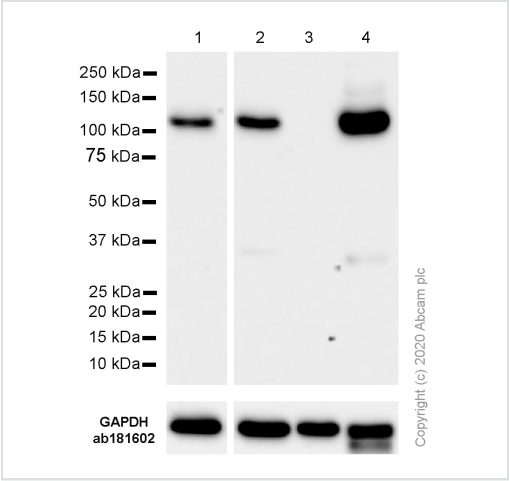


Western blot - Anti-CBL antibody [YE323] - C-terminal (ab32027)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: CBL knockout HAP1 whole cell lysate (20 µg)
Lane 3: THP1 whole cell lysate (20 µg)
Lane 4: Raji whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab32027 observed at 100 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

Unpurified ab32027 was shown to specifically react with CBL in wild-type HAP1 cells as signal was lost in CBL knockout cells. Wild-type and CBL knockout samples were subjected to SDS-PAGE. ab32027 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/5000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-CBL antibody [YE323] - C-terminal (ab32027)

All lanes : Anti-CBL antibody [YE323] - C-terminal (ab32027) at 1/1000 dilution

Lane 1 : WEHI-231 (Mouse B cell lymphoma B lymphocyte) cell lysate
Lane 2 : F9 (Mouse embryonal carcinoma epithelial cell) cell lysate
Lane 3 : NIH/3T3 (Mouse embryonic fibroblast) cell lysate
Lane 4 : Mouse thymus lysate

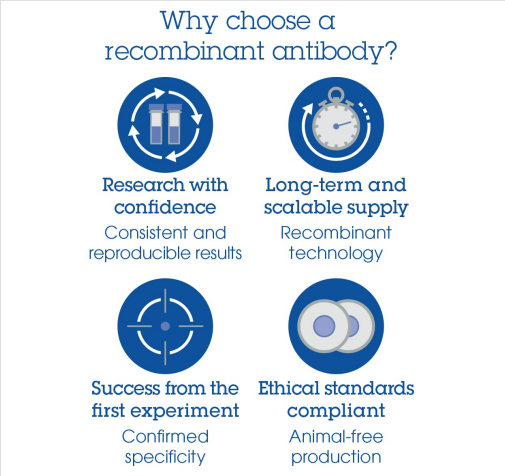
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 99 kDa
Observed band size: 110 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST

Exposure time: 30 seconds



Anti-CBL antibody [YE323] - C-terminal (ab32027)

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