

Product datasheet

Anti-Bcl10 antibody [EP606Y] ab33905

KO VALIDATED

Recombinant

RabMAb[®]

[5 References](#) [10 Images](#)

Overview

Product name	Anti-Bcl10 antibody [EP606Y]
Description	Rabbit monoclonal [EP606Y] to Bcl10
Host species	Rabbit
Specificity	<p>This antibody does not react with mouse species in Western blot, Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) and Immunoprecipitation application.</p> <p>This antibody does not react with rat species in Western blot application.</p>
Tested applications	Suitable for: Flow Cyt (Intra), ICC/IF, WB, IHC-P, IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human Bcl10 aa 200 to the C-terminus (C terminal). The exact sequence is proprietary.
Positive control	WB: Raji, Romas and HeLa cell lysates. IHC-P: Human hepatocellular and lung carcinoma tissues. ICC/IF: Raji and HeLa cells. IP: Ramos cell lysate. Flow Cyt (intra): Raji cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>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.</p> <p>Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

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: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP606Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab33905 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

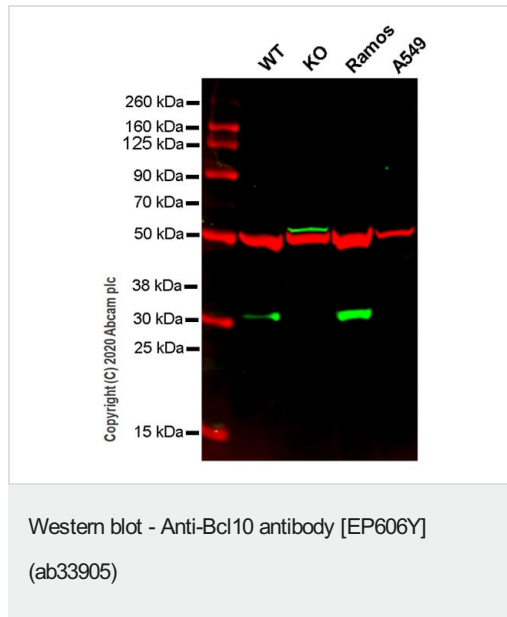
Application	Abreviews	Notes
Flow Cyt (Intra)		1/200. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/100 - 1/250.
WB		1/1000 - 1/5000. Detects a band of approximately 32 kDa (predicted molecular weight: 31 kDa).
IHC-P		1/50. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/20 - 1/50.

Target

Function	Promotes apoptosis, pro-caspase-9 maturation and activation of NF-kappa-B via NIK and IKK. May be an adapter protein between upstream TNFR1-TRADD-RIP complex and the downstream NIK-IKK-IKAP complex. Is a substrate for MALT1.
Tissue specificity	Ubiquitous.
Involvement in disease	Note=A chromosomal aberration involving BCL10 is recurrent in low-grade mucosa-associated lymphoid tissue (MALT lymphoma). Translocation t(1;14)(p22;q32). Although the BCL10/IgH translocation leaves the coding region of BCL10 intact, frequent BCL10 mutations could be attributed to the Ig somatic hypermutation mechanism resulting in nucleotide transitions. Note=Defects in BCL10 are involved in various types of cancer.
Sequence similarities	Contains 1 CARD domain.
Post-translational modifications	Phosphorylated. Phosphorylation results in dissociation from TRAF2 and binding to BIRC2/c-IAP2.
Cellular localization	Cytoplasm > perinuclear region. Membrane raft. Appears to have a perinuclear, compact and

filamentous pattern of expression. Also found in the nucleus of several types of tumor cells. Colocalized with DPP4 in membrane rafts.

Images



All lanes : Anti-Bcl10 antibody [EP606Y] (ab33905) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate

Lane 2 : BCL10 knockout HeLa cell lysate

Lane 3 : Ramos cell lysate

Lane 4 : A549 cell lysate

Lysates/proteins at 20 µg per lane.

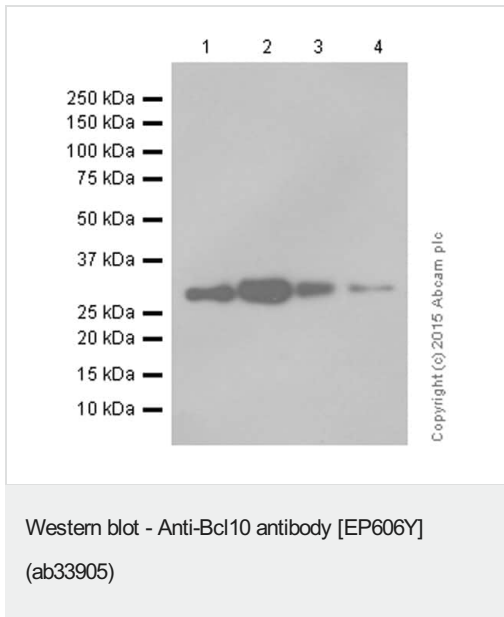
Performed under reducing conditions.

Predicted band size: 31 kDa

Observed band size: 32 kDa

Lanes 1-4: Merged signal (red and green). Green - ab33905 observed at 32 kDa. Red - loading control, **ab7291** observed at 52 kDa.

ab33905 Anti-Bcl10 antibody [EP606Y] was shown to specifically react with Bcl10 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab261797** (knockout cell lysate **ab257144**) was used. Wild-type and Bcl10 knockout samples were subjected to SDS-PAGE. ab33905 and Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) 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 10000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-Bcl10 antibody [EP606Y] (ab33905) at 1/5000 dilution (purified)

Lane 1 : Raji cell lysate

Lane 2 : Ramos cell lysate

Lane 3 : HuT-78 cell lysate

Lane 4 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

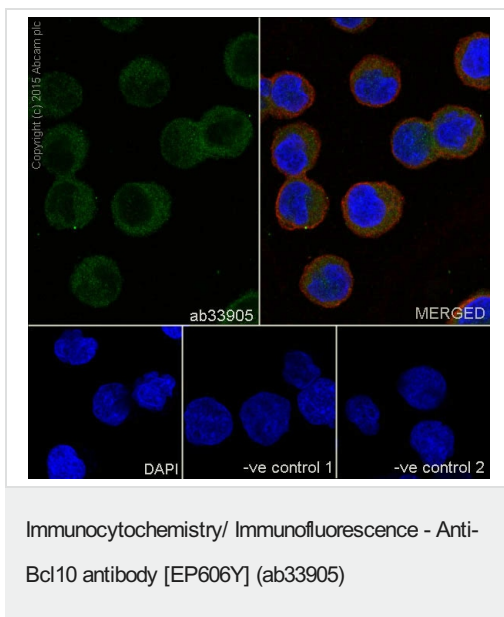
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 31 kDa

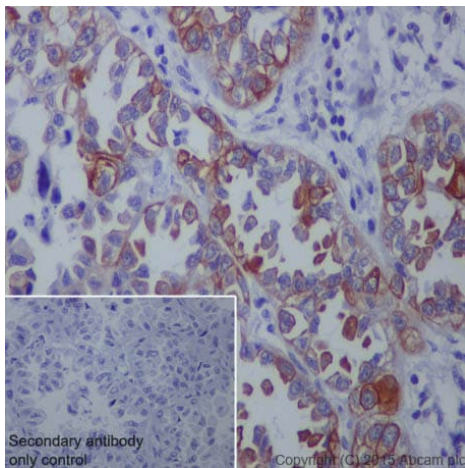
Observed band size: 32 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST

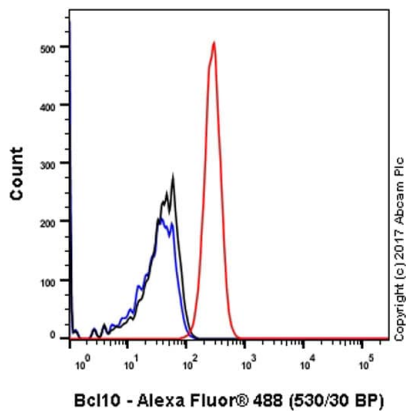


Immunofluorescence staining of Raji cells with purified ab33905 at a working dilution of 1/100, counter-stained with DAPI. The secondary antibody was Alexa Fluor[®] 488 goat anti-rabbit (**ab150077**), used at a dilution of 1/1000. **ab7291**, a mouse anti-tubulin antibody (1/1000), was used to stain tubulin along with **ab150120** (Alexa Fluor[®] 594 goat anti-mouse, 1/1000), shown in the top right hand panel. The cells were fixed in 4 % PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in bottom middle and right hand panels - for negative control 1, purified ab33905 was used at a dilution of 1/500 followed by an Alexa Fluor[®] 594 goat anti-mouse antibody (**ab150120**) at a dilution of 1/500. For negative control 2, **ab7291** (mouse anti-tubulin) was used at a dilution of 1/500 followed by an Alexa Fluor[®] 488 goat anti-rabbit antibody (**ab150077**) at a dilution of 1/400.



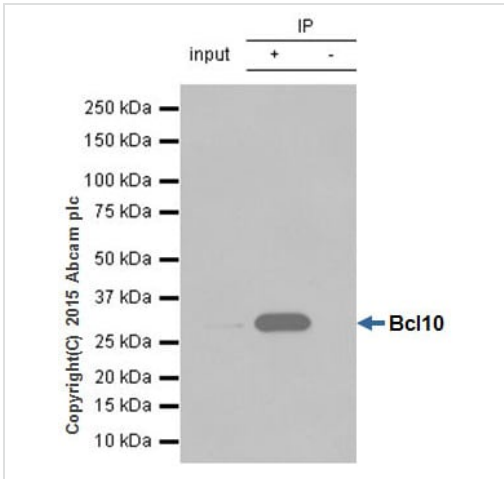
Immunohistochemical staining of paraffin embedded human lung carcinoma with purified ab33905 at a working dilution of 1/50. The secondary antibody used is **ab97051**, a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bcl10 antibody [EP606Y] (ab33905)



Intracellular Flow Cytometry analysis of Raji (human Burkitt's lymphoma) cells labeling Bcl10 (red) with ab33905 at a 1/200 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (**ab172730**). Blue (unlabeled control) - Cells without incubation with primary and secondary antibodies.

Flow Cytometry (Intracellular) - Anti-Bcl10 antibody [EP606Y] (ab33905)



Immunoprecipitation - Anti-Bcl10 antibody [EP606Y]
(ab33905)

ab33905 (purified) at 1/20 immunoprecipitating Bcl10 in 10 μ g Ramos cell lysate (Lanes 1 and 2, observed at 32 kDa). Lane 3 - Rabbit monoclonal IgG (**ab172730**). For western blotting, HRP Veriblot for IP (**ab131366**) was used for detection (1/10 000). Blocking buffer and concentration: 5% NFDm/TBST Dilution buffer and concentration: 5% NFDm/TBST



Western blot - Anti-Bcl10 antibody [EP606Y]
(ab33905)

Anti-Bcl10 antibody [EP606Y] (ab33905) at 1/1000 dilution (unpurified) + Recombinant Human Bcl10 protein (**ab82241**) at 0.01 μ g

Secondary

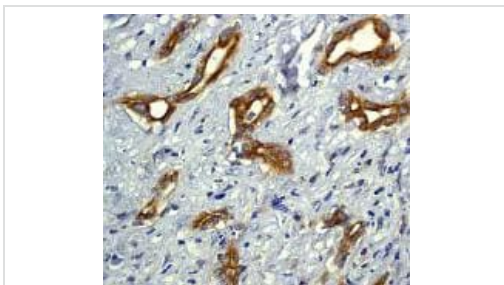
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

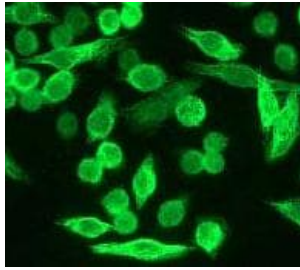
Predicted band size: 31 kDa

Exposure time: 1 minute



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bcl10 antibody [EP606Y]
(ab33905)

Unpurified ab33905, at a 1/100 dilution, staining human hepatocellular carcinoma by Immunohistochemistry, Paraffin embedded tissue.



Unpurified ab33905, staining HeLa cells by Immunofluorescent.

Immunocytochemistry/ Immunofluorescence - Anti-Bcl10 antibody [EP606Y] (ab33905)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Bcl10 antibody [EP606Y] (ab33905)

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