

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>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

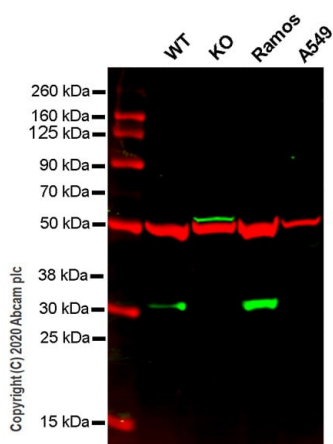
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab33905 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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



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

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.

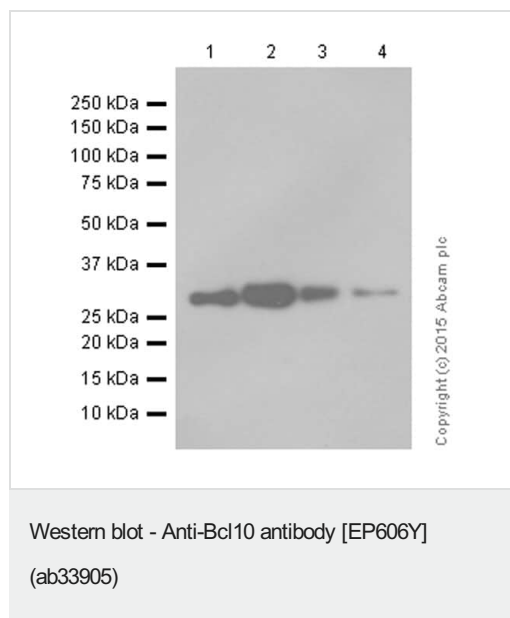
Performed under reducing conditions.

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

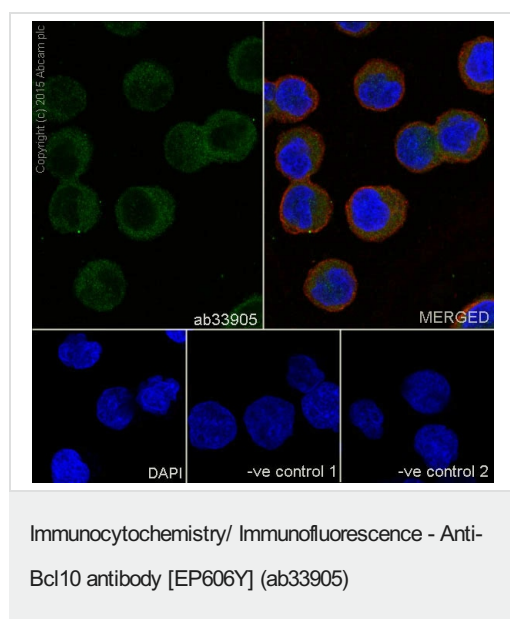
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 31 kDa

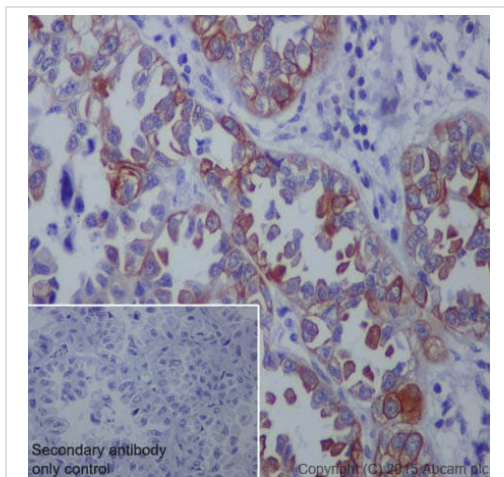
Observed band size: 32 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST

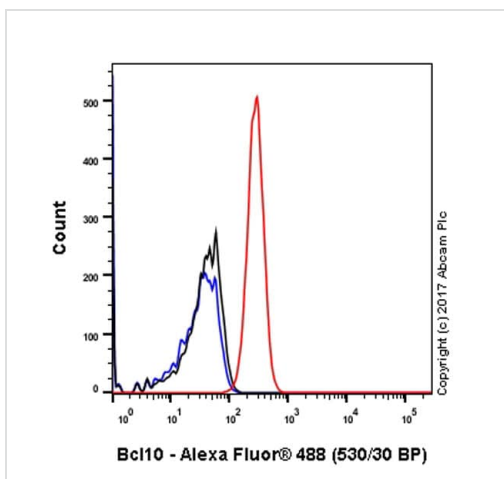


Immunofluorescence staining of Raji cells with purified ab33905 at a working dilution of 1/100, counter-stained with DAPI. The secondary antibody was Alexa Fluor® 488 goat anti-rabbit ([ab150077](#)), used at a dilution of 1/1000. [ab7291](#), a mouse anti-tubulin antibody (1/1000), was used to stain 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.



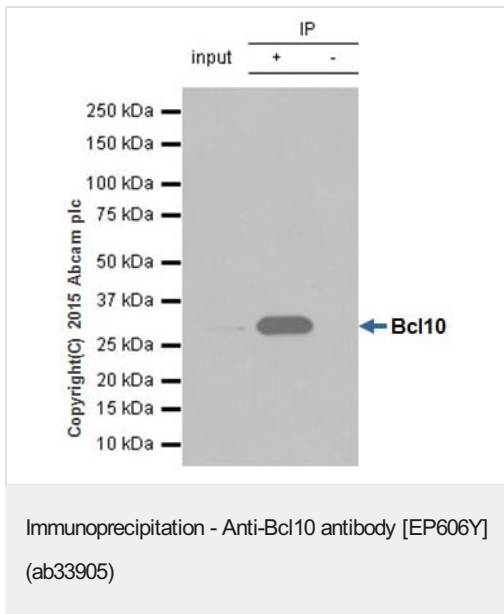
Immunohistochemical staining of paraffin embedded human lung carcinoma with purified ab33905 at a working dilution of 1/50. The secondary antibody used is **ab97051**, a goat anti-rabbit IgG (H&L) at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed 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)

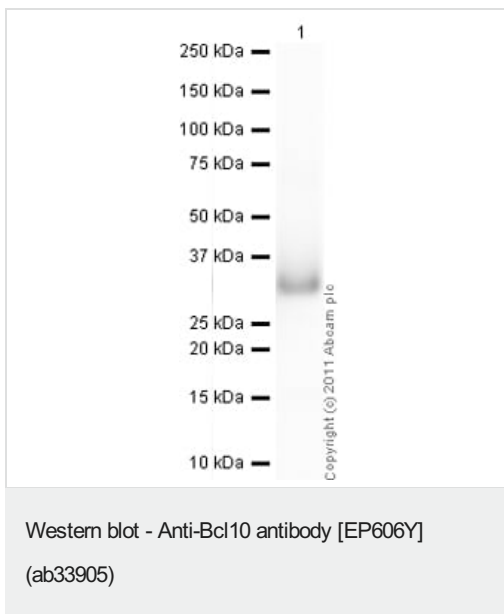


Intracellular Flow Cytometry analysis of Raji (human Burkitt's lymphoma) cells labeling Bcl10 (red) with ab33905 at a 1/200 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody 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)



ab33905 (purified) at 1/20 immunoprecipitating Bcl10 in 10 µg 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



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

Secondary

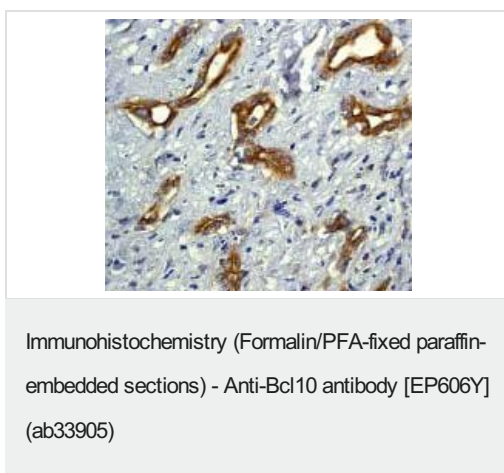
Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

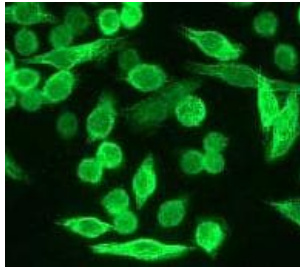
Performed under reducing conditions.

Predicted band size: 31 kDa

Exposure time: 1 minute



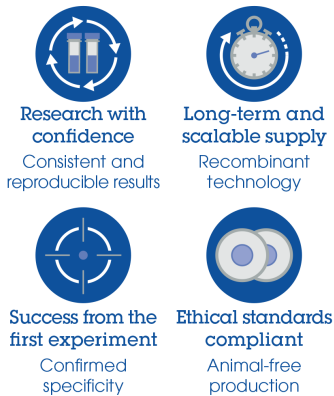
Unpurified ab33905, at a 1/100 dilution, staining human hepatocellular carcinoma by Immunohistochemistry, Paraffin embedded tissue.



Unpurified ab33905, staining HeLa cells by Immunofluorescent.

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

Why choose a recombinant antibody?



Anti-Bcl10 antibody [EP606Y] (ab33905)

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