abcam

Product datasheet

Anti-IP10 antibody [EPR7850] ab137018

KO VALIDATED Recombinant RabMAb

1 References 5 Images

Overview

Product name	Anti-IP10 antibody [EPR7850]
Description	Rabbit monoclonal [EPR7850] to IP10
Host species	Rabbit
Tested applications	**Suitable for:** WB, Indirect ELISA **Unsuitable for:** IHC-P or IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide within Human IP10 aa 50 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: **P02778**
Positive control	WB: Wild-type THP-1 treated IFNg, Wild-type A549 IFN-y (**ab259377**) (100 ng/ml, 32 h) and TNF-alpha (**ab259410**) (10 ng/ml) for 32 hours, and Brefeldin A (**ab120299**)-treated (5ug/ml for the last 6h) cell lysate; IP10 recombinant protein.
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. Store at -20ºC.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture

	supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR7850
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab137018 in the following tested applications.

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

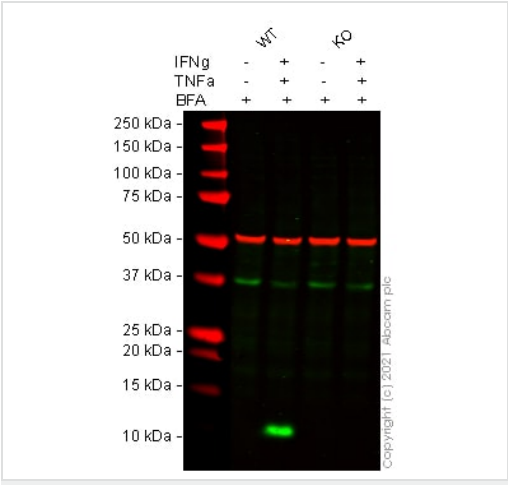
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 10 kDa.
Indirect ELISA		Use at an assay dependent concentration.

Application notes Is unsuitable for IHC-P or IP.

Target

Function	Chemotactic for monocytes and T-lymphocytes. Binds to CXCR3.
Sequence similarities	Belongs to the intercrine alpha (chemokine CxC) family.
Post-translational modifications	CXCL10(1-73) is produced by proteolytic cleavage after secretion from keratinocytes.
Cellular localization	Secreted.

Images



Western blot - Anti-IP10 antibody [EPR7850] (ab137018)

All lanes : Anti-IP10 antibody [EPR7850] (ab137018) at 1/1000 dilution

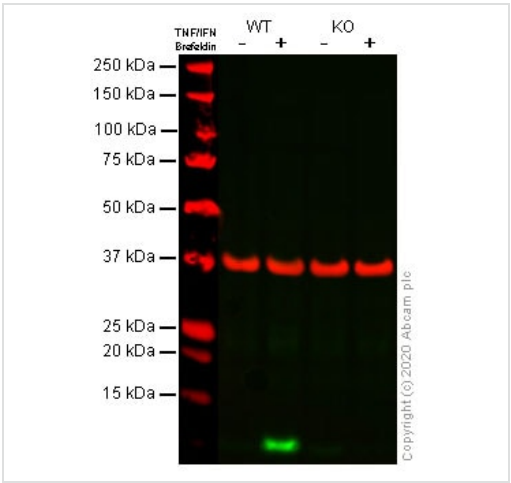
Lane 1 : Wild-type THP-1 vehicle control IFNg (0 ng/ml, 32 h), TNF-alpha (0 ng/ml, 32 h), Brefeldin A (5 ug/ml, 6 h) cell lysate
Lane 2 : Wild-type THP-1 treated IFNg (100 ng/ml, 32 h), TNF-alpha (10 ng/ml, 32 h), Brefeldin A (5 ug/ml, 6 h) cell lysate
Lane 3 : CXCL10 knockout THP-1 vehicle control IFNg (0 ng/ml, 32 h), TNF-alpha (0 ng/ml, 32 h), Brefeldin A (5 ug/ml, 6 h) cell lysate
Lane 4 : CXCL10 knockout THP-1 treated IFN-gamma (100 ng/ml, 32 h), TNF-alpha (10 ng/ml, 32 h), Brefeldin A (5 ug/ml, 6 h) cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 10 kDa
Observed band size: 11 kDa

False colour image of Western blot: Anti-IP10 antibody [EPR7850] staining at 1/1000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] (**ab7291**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab137018 was shown to bind specifically to IP10. A band was observed at 11 kDa in treated wild-type THP-1 cell lysates with no signal observed at this size in treated CXCL10 knockout cell line **ab277860** (knockout cell lysate **ab282997**). To generate this image, wild-type and CXCL10 knockout THP-1 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 Â°C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.



Western blot - Anti-IP10 antibody [EPR7850] (ab137018)

All lanes : Anti-IP10 antibody [EPR7850] (ab137018) at 1/500 dilution

Lane 1 : Wild-type A549 Brefeldin A (**ab120299**)-treated (5ug/ml, 6h) cell lysate
Lane 2 : Wild-type A549 IFN-y (**ab259377**) (100 ng/ml, 32 h) and TNF-alpha (**ab259410**) (10 ng/ml) for 32 hours, and Brefeldin A (**ab120299**)-treated (5ug/ml for the last 6h) cell lysate
Lane 3 : IP10 knockout A549 Brefeldin A (**ab120299**)-treated (5ug/ml, 6h) cell lysate
Lane 4 : IP10 knockout A549 IFN-y (**ab259377**) (100 ng/ml, 32 h) and TNF-alpha (**ab259410**) (10 ng/ml) for 32 hours, and Brefeldin A (**ab120299**)-treated (5ug/ml for the last 6h) cell lysate

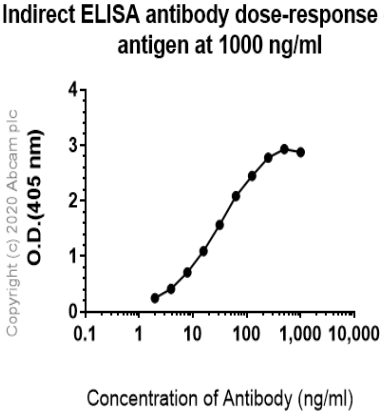
Lysates/proteins at 30 µg per lane.

Performed under reducing conditions.

Predicted band size: 10 kDa
Observed band size: 11 kDa

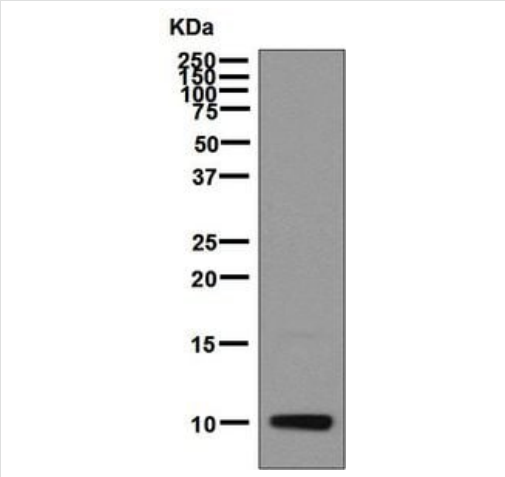
Lanes 1 - 4: Merged signal (red and green). Green - ab137018 observed at 11 kDa. Red - loading control **ab8245** (Mouse anti-GAPDH antibody [6C5]) observed at 37kDa.

ab137018 was shown to react with IP10 in A549 wild-type cells in western blot with loss of signal observed in IP10 knockout cell line **ab266969** (IP10 knockout cell lysate **ab256886**). A549 wild-type and IP10 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with ab137018 and **ab8245** (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 500 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Indirect ELISA - Anti-IP10 antibody [EPR7850] (ab137018)

ELISA analysis of Human IP10 recombinant protein at 1000 ng/mL with ab137018. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.



Western blot - Anti-IP10 antibody [EPR7850] (ab137018)

Anti-IP10 antibody [EPR7850] (ab137018) at 1/1000 dilution + IP10 recombinant protein at 0.01 µg

Secondary

HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 10 kDa

Anti-IP10 antibody [EPR7850] (ab137018)

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