

Anti-IP10 antibody [EPR20764] - BSA and Azide free ab224678

KO VALIDATED Recombinant RabMAb

5 Images

Overview

Product name	Anti-IP10 antibody [EPR20764] - BSA and Azide free
Description	Rabbit monoclonal [EPR20764] to IP10 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Indirect ELISA, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Wild-type THP-1 treated IFN γ (100 ng/ml, 32 h), TNF-alpha (10 ng/ml, 32 h), Brefeldin A (5 ug/ml, 6 h), Wild-type A549 IFN- γ (ab259377) (100 ng/ml, 32 h) and TNF-alpha (ab259410) (10 ng/ml, 32h), and Brefeldin A (ab120299)-treated (5ug/ml for the last 6h) cell lysate; THP-1 IFN- γ (ab259377) (200ng/ml, 24h) and LPS (50ng/ml, 24h)-treated for 24 hours, and Brefeldin A (ab120299)-treated (5ug/ml for the last 6h) cell lysate.
General notes	<p>ab224678 is the carrier-free version of ab214668.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <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>

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20764
Isotype	IgG

Applications

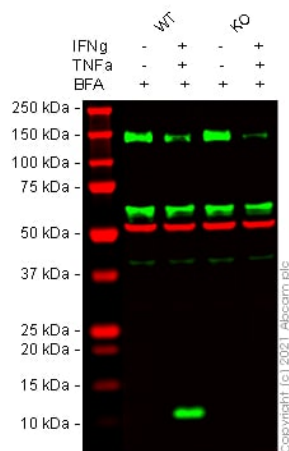
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab224678 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Indirect ELISA		Use at an assay dependent concentration.
WB		1/1000. Detects a band of approximately 12 kDa (predicted molecular weight: 10 kDa).

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 [EPR20764] - BSA and Azide free (ab224678)

All lanes : Anti-IP10 antibody [EPR20764] (**ab214668**) at 1/1000 dilution

Lane 1 : Wild-type THP-1 vehicle control IFN γ (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 IFN γ (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 IFN γ (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 μ g per lane.

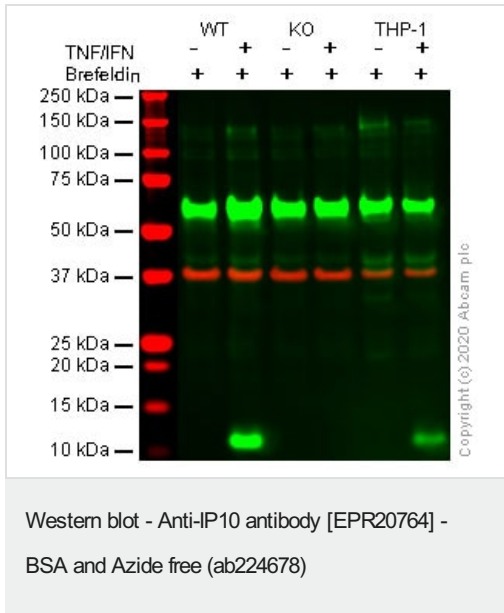
Performed under reducing conditions.

Predicted band size: 10 kDa

Observed band size: 11 kDa

False colour image of Western blot: Anti-IP10 antibody [EPR20764] 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, **ab214668** 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°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.



All lanes : Anti-IP10 antibody [EPR20764] ([ab214668](#)) at 1/1000 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, 32h), 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](#)) (100ng/ml, 32h) and TNF-alpha ([ab259410](#)) (10ng/ml, 32h), and Brefeldin A ([ab120299](#))-treated (5ug/ml for the last 6h) cell lysate

Lane 5 : THP-1 Brefeldin A ([ab120299](#))-treated (5ug/ml, 6h) cell lysate

Lane 6 : THP-1 IFN-y ([ab259377](#)) (200ng/ml, 24h) and LPS (50ng/ml, 24h)-treated for 24 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.

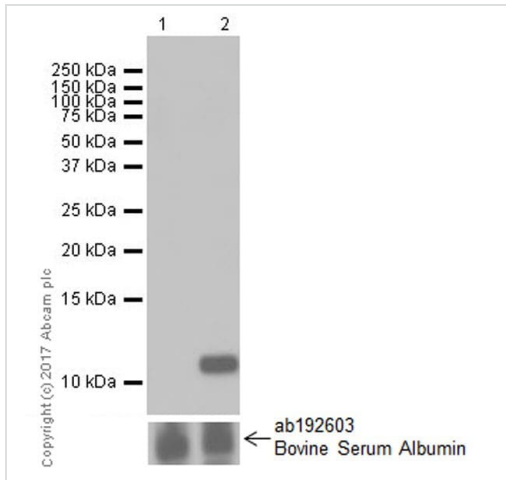
Predicted band size: 10 kDa

Observed band size: 11 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab214668](#)).

[ab214668](#) was shown to react with IP10 in wild-type A549 cells in western blot with loss of signal observed in IP10 knockout cell line [ab266971](#) (knockout cell lysate [ab256888](#)). Wild-type and IP10 knockout A549 cell lysates were subjected to SDS-PAGE. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with [ab214668](#) and [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) overnight at 4°C at a 1 in 1000 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.



Western blot - Anti-IP10 antibody [EPR20764] -
BSA and Azide free (ab224678)

All lanes : Anti-IP10 antibody [EPR20764] ([ab214668](#)) at 1/1000 dilution

Lane 1 : Untreated THP-1 (human monocytic leukemia cell line) culture supernatant

Lane 2 : THP-1 treated with 200 ng/ml interferon-gamma (IFN-gamma, [ab9659](#)) and 50 ng/ml lipopolysaccharides (LPS) for 24 hours, culture supernatant

Lysates/proteins at 15 μ l per lane.

Secondary

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

Developed using the ECL technique.

Predicted band size: 10 kDa

Observed band size: 12 kDa

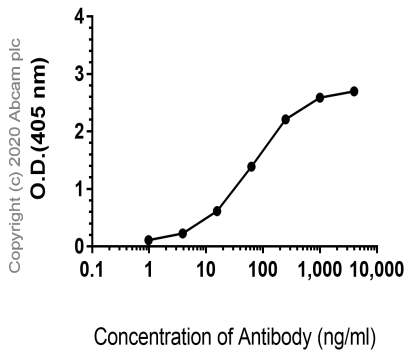
Exposure time: 15 seconds

Blocking/Dilution buffer: 5% NFDN/TBST.

IP10 protein secretion can be induced by IFN-gamma treatment (PMID: 11907072).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab214668](#)).

Indirect ELISA antibody dose-response curve antigen at 1000 ng/ml



ELISA - Anti-IP10 antibody [EPR20764] - BSA and Azide free (ab224678)

This data was developed using **ab214668**, the same antibody clone in a different buffer formulation.

ELISA analysis of CXCL10 recombinant protein at 1000 ng/mL with **ab214668**. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.

Why choose a recombinant antibody?

<p>Research with confidence Consistent and reproducible results</p>	<p>Long-term and scalable supply Recombinant technology</p>
<p>Success from the first experiment Confirmed specificity</p>	<p>Ethical standards compliant Animal-free production</p>

Anti-IP10 antibody [EPR20764] - BSA and Azide free (ab224678)

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