abcam

Product datasheet

Anti-IP10 antibody [EPR24674-12] - BSA and Azide free ab283708

KO VALIDATED Recombinant RabMAb

2 Abreviews 4 Images

Overview

Product name	Anti-IP10 antibody [EPR24674-12] - BSA and Azide free
Description	Rabbit monoclonal [EPR24674-12] to IP10 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF **Unsuitable for:** IHC-P or IP
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Wild-type A549 and THP-1 treated with IFN-y, LPS, and Brefeldin A whole cell lysates ICC/IF: THP-1 cells, and A549 cells treated with Interferon gamma, lipopolysaccharide, and Brefeldin A
General notes	ab283708 is the carrier-free version of **ab283681**. 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. 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. 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. 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. 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**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.2 Constituent: 100% PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR24674-12
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab283708 in the following tested applications.

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

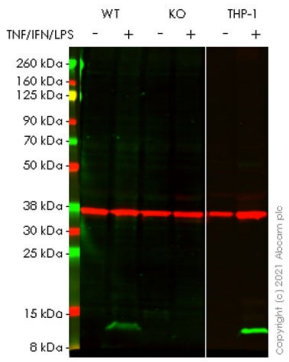
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 10 kDa.
ICC/IF		Use at an assay dependent concentration.

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 [EPR24674-12] - BSA and Azide free (ab283708)

All lanes : Anti-IP10 antibody [EPR24674-12] (**ab283681**) at 1/1000 dilution

Lane 1 : Untreated Wild-type A549 (human lung carcinoma epithelial cell), whole cell lysate at 40 µg
Lane 2 : Wild-type A549 treated with 100 ng/ml IFN-y (**ab259377**) for 32 hours and 10 ng/m TNF-alpha (**ab259410**) for 32 hours, and 5ug/ml Brefeldin A (**ab120299**) for the last 6 hours, whole cell lysate at 40 µg
Lane 3 : Untreated IP10 knockout A549 whole cell lysate at 40 µg
Lane 4 : IP10 knockout A549 treated with 100 ng/ml IFN-y (**ab259377**) for 32 hours and 10 ng/m TNF-alpha (**ab259410**) for 32 hours, and 5ug/ml Brefeldin A (**ab120299**) for the last 6 hours, whole cell lysate at 40 µg
Lane 5 : Untreated THP-1 (human monocytic leukemia monocyte), whole cell lysate at 20 µg
Lane 6 : THP-1 treated with 200ng/ml IFN-y (**ab259377**) for 24 hours and 50ng/ml LPS for 24 hours, and 5ug/ml Brefeldin A for the last 21 hours, whole cell lysate at 20 µg

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (IRDye® 800CW) (**ab216773**) and Goat Anti-Mouse IgG H&L (IRDye® 680RD) (**ab216776**) at 1/10000 dilution

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

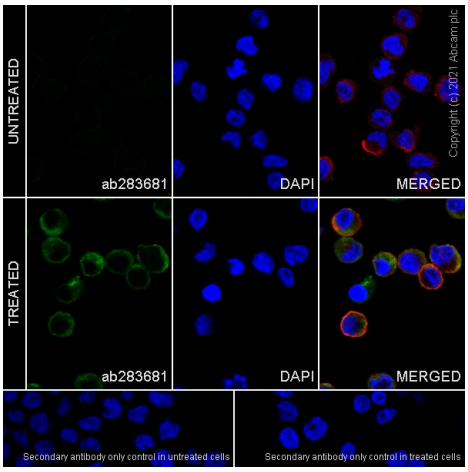
This data was developed using **ab283681**, the same antibody clone in a different buffer formulation.

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

Lanes 1-6: Merged signal (red and green). Green - **ab283681** observed at 11 kDa. Red-loading control **ab8245** (Mouse monoclonal [6C5] to GAPDH) was observed at 36 kDa.

ab283681 Anti-TNF Receptor I antibody [EPR24674-12] was shown to specifically react with IP10 in treated wild-type A549 cells. Loss of signal was observed when IP10 knockout cell lines

ab266971 (knockout cell lysate **ab256888**) were used. Wild-type and IP10 knockout samples were subjected to SDS-PAGE. **ab283681** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at 4°C overnight 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.

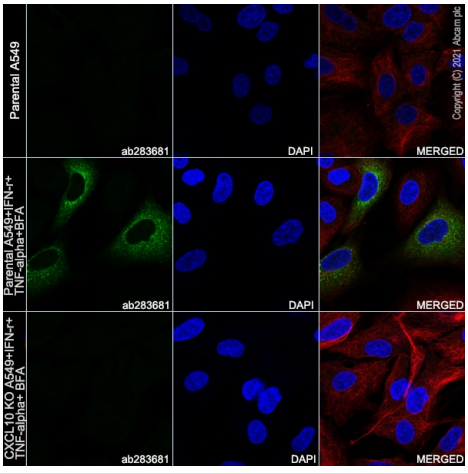


Immunocytochemistry/ Immunofluorescence - Anti-IP10 antibody [EPR24674-12] - BSA and Azide free (ab283708)

This data was developed using **ab283681**, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized THP-1 cells labelling IP10 with **ab283681** at 1/50 (12.86 ug/ml) dilution, followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 ug/ml) dilution (Green). Confocal image showing cytoplasmic staining in THP-1 cell line after treatment with Interferon gamma (200 ng/ml) and lipopolysaccharide (50 ng/ml) for 3 h, then adding Brefeldin A (1 ug/ml) for another 21 h. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5 ug/ml) dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/ml) dilution.



Immunocytochemistry/ Immunofluorescence - Anti-IP10 antibody [EPR24674-12] - BSA and Azide free (ab283708)

This data was developed using **ab283681**, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized CXCL10 KO A549 (**ab266971**) cells labelling IP10 with **ab283681** at 1/50 (12.86 ug/ml) dilution, followed by **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 ug/ml) dilution (Green). Confocal image showing the signal expression was increased in Parental A549 cells after treatment with Interferon gamma (200 ng/ml) and lipopolysaccharide (50 ng/ml) for 3h, then adding Brefeldin A (1 ug/ml) for another 21h, and no staining in treated CXCL10 KO A549 cells with the same conditions. **ab195889** Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5 ug/ml) dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/ml) dilution.

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