abcam

ab325792

Anti-IP10 antibody [EPR30290-22]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR30290-22
Purification technique	Affinity purification Protein A
Concentration	0.513 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt (Intra)

Tested

Species	Transfected cell line - Mouse
Dilution info	1/50000
Notes	-

Species	Mouse

Dilution info	1/500
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/200
Notes	-

Not recommended

Species	Transfected cell line - Mouse
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Transfected cell line - Mouse
Dilution info	-
Notes	-

WB

Not recommended

Species	Mouse, Transfected cell line - Mouse
Dilution info	-
Notes	-

Target data

See full target information Cxcl10

Function	Pro-inflammatory cytokine that is involved in a wide variety of processes such as chemotaxis, differentiation, and activation of peripheral immune cells, regulation of cell growth, apoptosis and modulation of angiostatic effects (By similarity) (PubMed:28623423). Plays thereby an important role during viral infections by stimulating the activation and migration of immune cells to the infected sites (PubMed:18624292, PubMed:19017990, PubMed:28468883). Mechanistically, binding of CXCL10 to the CXCR3 receptor activates G protein-mediated signaling and results in downstream activation of phospholipase C-dependent pathway, an increase in intracellular calcium production and actin reorganization. In turn, recruitment of activated Th1 lymphocytes occurs at sites of inflammation (By similarity). Activation of the CXCL10/CXCR3 axis also plays an important role in neurons in response to brain injury for activating microglia, the resident macrophage population of the central nervous system, and directing them to the lesion site. This recruitment is an essential element for neuronal reorganization (PubMed:15456824).

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

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

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

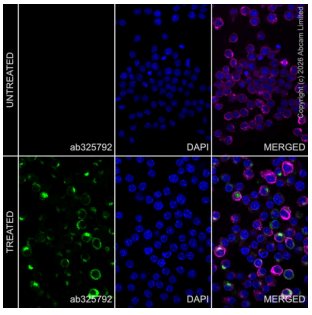
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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4 product images



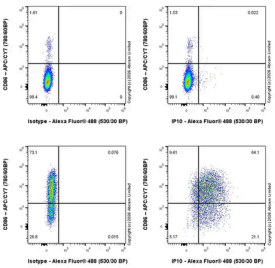
Immunocytochemistry/ Immunofluorescence - Anti-IP10 antibody [EPR30290-22] (ab325792)

IP10 Immunocytochemistry/ Immunofluorescence staining of RAW 264.7 treated with mIFN-gamma (200 ng/mL) and lipopolysaccharide (50 ng/mL) for 24 hr using rabbit Anti-IP10 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) and RAW 264.7 treated with mIFN-gamma (200 ng/mL) and lipopolysaccharide (50 ng/mL) for 24 hr cells labelling IP10 with ab325792 at 1/200 (2.51 µg/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green).

Confocal image showing increased cytoplasmic staining in RAW 264.7 cells (shown in green) treated with mIFN-gamma (200 ng/mL) and lipopolysaccharide (50 ng/mL) for 24 hr. The counterstain was observed in magenta. Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

ab7291 Anti-alpha Tubulin mouse monoclonal antibody was used to counterstain tubulin at 1/1000 (1 ug/ml) dilution, followed by ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) at 1/1000 (2 ug/ml) dilution (Magenta).



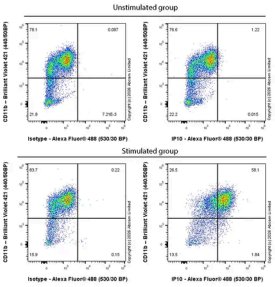
Flow Cytometry (Intracellular) - Anti-IP10 antibody [EPR30290-22] (ab325792)

IP10 Flow Cytometry (Intracellular) staining using rabbit Anti-IP10 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 0.1% Tween-20 permeabilized RAW 264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) treated with 200ng/ml mIFN-r and 50ng/ml LPS for 3+21hours then add 1µg/ml BFA for 21h (Lower left and right) and Untreated RAW 264.7 (Upper left and right) cells labelling IP10 with ab325792 at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Cells were surface stained with anti-CD86 conjugated to APC/CY7. Then fixed with 4% PFA for 10 min followed by intracellularly staining with rabbit IgG or our antibody.



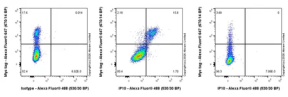
Flow Cytometry (Intracellular) - Anti-IP10 antibody [EPR30290-22] (ab325792)

IP10 Flow Cytometry (Intracellular) staining using rabbit Anti-IP10 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 0.1% Tween-20 permeabilized Mouse bone marrow treated with 100ng/mL M-CSF for 6days (Upper left and right)and Mouse bone marrow treated with 100ng/mL M-CSF for 6days then serum starvation for 2 hours then 50ng/mL IFN beta (Mouse) for 4hours (Lower left and right) cells labelling IP10 with ab325792 at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Cells were surface stained with anti-CD11b conjugated to BV421. Then fixed with 4% PFA for 10 min followed by intracellularly staining with rabbit IgG or our antibody.



Flow Cytometry (Intracellular) - Anti-IP10 antibody [EPR30290-22] (ab325792)

IP10 Flow Cytometry (Intracellular) staining using rabbit Anti-IP10 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized 293T cells transfected with a mouse Cxcl10 expression vector containing a myc-His-tag® (Middle) and 293T cells transfected with an empty expression vector containing a myc-His-tag® (Right) cells labelling IP10 with ab325792 at 1/50000 dilution (0.001ug) / Middle and Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Cells were co-stained with Myc tag conjugated to Alexa Fluor®647.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.