abcam

ab325236

Anti-IL-24 antibody [EPR28683-20]

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	EPR28683-20
Purification technique	Affinity purification Protein A
Concentration	0.512 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt (Intra)

Tested

Species	Transfected cell lysate - Human
Dilution info	1/500
Notes	-

Species	Human

Dilution info	1/500
Notes	-

Not recommended

Species	Mouse
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Not recommended

Species	Mouse, Transfected cell lysate - Human
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human, Mouse, Transfected cell lysate - Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Transfected cell lysate - Human
Dilution info	-

Notes	-

Target data

See full target information IL24

Function	Multifunctional cytokine mainly produced by T-cells that plays a regulatory role in immune response, tissue homeostasis, host defense, and oncogenesis (PubMed:25168428, PubMed:27687232). Possesses antiviral functions and induces the type I interferon response during influenza infection (PubMed:27687232). Signals through two receptor complexes IL20RA/IL20RB or IL20RB/IL22RA1 (PubMed:11706020, PubMed:30111632). In turn, stimulates the JAK1-STAT3 and MAPK pathways and promotes the secretion of pro-inflammatory mediators including IL8 and MMP1 (PubMed:25168428). Intracellularly, maintains endoplasmic reticulum homeostasis by restricting the eIF2alpha-CHOP pathway-mediated stress signal (By similarity). In addition, acts as a quality control mechanism for the ubiquitin proteasome system by alerting the cell to proteasome dysfunction through activation of PKR/EIF2AK2 (By similarity).

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

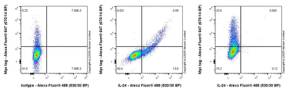
We do not recommend this combination. It is not covered by our product promise.

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.

4 product images



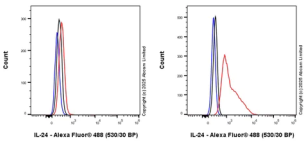
Flow Cytometry (Intracellular) - Anti-IL-24 antibody [EPR28683-20] (ab325236)

IL-24 Flow Cytometry (Intracellular) staining using rabbit Anti-IL-24 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Isotype (Left) / 293T cells transfected with a human IL-24 expression vector containing a myc-His-tag® (Middle) / 293T cells transfected with an empty expression vector containing a myc-His-tag® (Right) cells labelling IL-24 with ab325236 at 1/500 dilution (0.1ug) / Middle and Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

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.



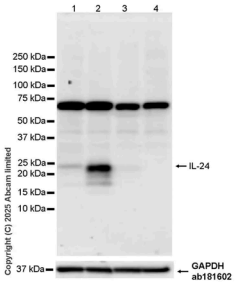
Flow Cytometry (Intracellular) - Anti-IL-24 antibody [EPR28683-20] (ab325236)

IL-24 Flow Cytometry (Intracellular) staining of A375 (human malignant melanoma epithelial cell) treated with 300ng/ml BFA for 24 hours (Right) using rabbit Anti-IL-24 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized A-673 (human muscle Ewings sarcoma cell line) treated with 300ng/ml BFA for 24 hours (Left) A375 (human malignant melanoma epithelial cell) treated with 300ng/ml BFA for 24 hours (Right) cells labelling IL-24 with ab325236 at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

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

Low expression: A-673 treated with 300ng/ml BFA for 24 hours



Western blot - Anti-IL-24 antibody [EPR28683-20] (ab325236)

IL-24 Western blot staining of A375 treated with 300 ng/ml BFA for 24 hours whole cell lysate using rabbit Anti-IL-24 antibody

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

Low expression: A-673, A-673 treated with 300ng/ml BFA for 24 hours

The identity of the higher MW band at approximately 75 kDa is unknown.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) (1:200000) (36KDa).

All lanes:
Western blot - Anti-IL-24 antibody [EPR28683-20] (ab325236) at 1/1000 dilution

Lane 1:
Untreated A375 (human malignant melanoma epithelial cell) whole cell lysate at 20 µg

Lane 2:
A375 treated with 300 ng/ml BFA for 24 hours whole cell lysate at 20 µg

Lane 3:
Untreated A-673 (human muscle Ewings sarcoma cell line) whole cell lysate at 20 µg

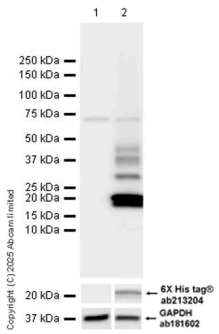
Lane 4:
A-673 treated with 300 ng/ml BFA for 24 hours whole cell lysate at 20 µg

Secondary

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

Observed band size: 23 kDa, 36 kDa

Exposure time: 114s



Western blot - Anti-IL-24 antibody [EPR28683-20] (ab325236)

IL-24 Western blot staining of 293T cells transfected with a human IL24 expression vector containing a his-tag, whole cell lysate using rabbit Anti-IL-24 antibody

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

The identity of the higher MW band at approximately 75 kDa is unknown.

In Western blot, Anti-GAPDH antibody [EPR16891] - Loading Control (ab181602) (1:200000) (36KDa).

All lanes:
Western blot - Anti-IL-24 antibody [EPR28683-20] (ab325236) at 1/1000 dilution

Lane 1:
293T cells transfected with an empty vector containing a his-tag, whole cell lysate at 20 µg

Lane 2:
293T cells transfected with a human IL24 expression vector containing a his-tag, whole cell lysate at 20 µg

Secondary

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

Observed band size: 23 kDa

Exposure time: 1s

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