abcam

ab115207

Anti-IL-24 antibody

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS, 0.2% Gelatin
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Human IL24 aa 100 to C-terminus conjugated to Keyhole Limpet Haemocyanin. The exact immunogen used to generate this antibody is proprietary information. Database link Q13007
Purification technique	Affinity purification Protein G
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human
Dilution info	10 µg/mL
Notes	After incubation with the primary antibody, slides are incubated with biotinylated rabbit anti-goat IgG secondary antibody followed by alkaline phosphatase-streptavidin and chromogen. Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

WB

Tested

Species	Human
Dilution info	0.5-5 µg/mL
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.

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	Blue Ice
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

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

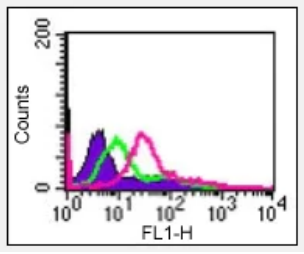
We do not recommend this combination. It is not covered by our product promise.

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.

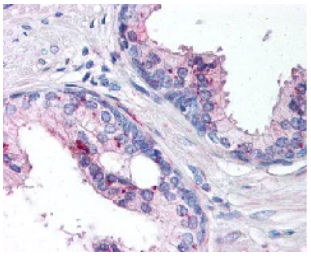
4 product images



Flow Cytometry (Intracellular) - Anti-IL-24 antibody (ab115207)

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

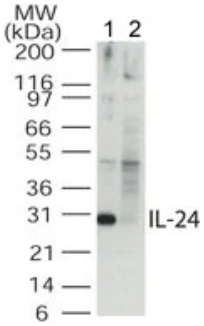
Fow cytometry analysis of IL24 in Jurkat cells using ab115207at 5µg/10^6 cells. The shaded histogram represents cells only, green represents isotype control, and pink represents anti-IL24 antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-24 antibody (ab115207)

IL-24 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IL-24 antibody

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human prostate tissue, staining IL24 with ab114207 at 10 µg/ml.



Western blot - Anti-IL-24 antibody (ab115207)

All lanes:
Western blot - Anti-IL-24 antibody (ab115207) at 0.5 µg/mL

Lane 1:
Jurkat cell lysate

Lane 2:
Jurkat cell lysate with IL24 blocking peptide

Predicted band size: 23 kDa

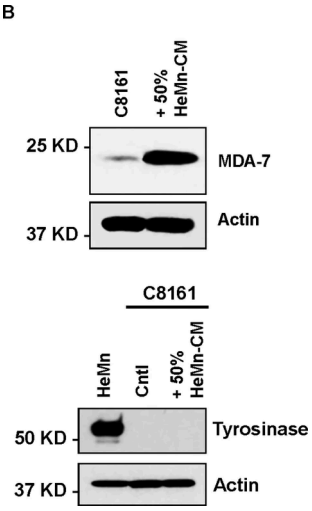


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Western blot - Anti-IL-24 antibody (ab115207)

IL-24 western blot using anti-IL-24 antibody ab115207. Publication image and figure legend from Margaryan, N. V., Gilgur, A., et al., 2016, Int J Mol Sci, PubMed 27011171.

ab115207 was used in this publication in western blot. This may not be the same as the application(s) guaranteed by Abcam. For a full list of applications guaranteed by Abcam for ab115207 please see the product overview.

Effect of treatment of C8161 melanoma cells with HeMn melanocyte conditioned medium (HeMn-CM). (A) C8161 cells treated with HeMn-CM show morphologic changes such as dendritic shape with long cytoplasmic extensions reminiscent of melanocyte differentiation. (40× original magnification); (B) Although, Melanoma Differentiation Associated protein 7 (MDA-7) was detected in C8161 cells treated with HeMn-CM, the melanin synthesis associated enzyme tyrosinase was not; (C) C8161 cells treated with HeMn-CM showed similar proliferation rate and cell viability as non-treated control C8161 cells making potential toxic effect of HeMn-CM on C8161 unlikely; (D) Western blot analysis show that HeMn-CM treated C8161 express lower levels of Nodal, P-SMAD2 and P-ERK1/2 compared to untreated control C8161 cells. Numbers below WB bands represent densitometric units, normalized to actin loading control, total SMAD2/3 or total ERK1/2, as appropriate, relative to control.

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