

IL24 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP21241a

Product Information

Application	WB, FC, IHC-P, E
Primary Accession	Q13007
Reactivity	Human, Rat, Mouse
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52609
Calculated MW	23825

Additional Information

Gene ID	11009
Other Names	Interleukin-24, IL-24, Melanoma differentiation-associated gene 7 protein, MDA-7, Suppression of tumorigenicity 16 protein, IL24, MDA7, ST16
Target/Specificity	This IL24 antibody is generated from a rabbit immunized with a recombinant protein.
Dilution	WB~~1:2000 FC~~1:25 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	IL24 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	IL24
Synonyms	MDA7, ST16
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).

Cellular Location

Secreted.

Tissue Location

Up-regulated in melanoma cells induced to terminally differentiate

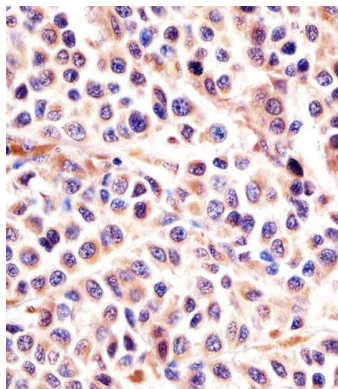
Background

Has antiproliferative properties on melanoma cells and may contribute to terminal cell differentiation.

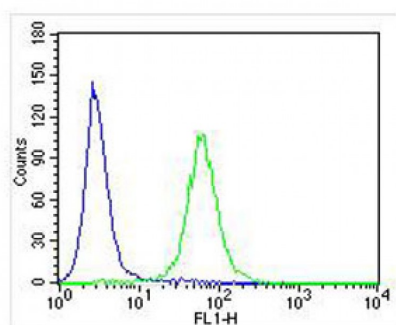
References

- Jiang H.,et al.Oncogene 11:2477-2486(1995).
 Peat J.,et al.Submitted (JUN-2000) to the EMBL/GenBank/DDBJ databases.
 Huang E.Y.,et al.Oncogene 20:7051-7063(2001).
 Allen M.,et al.J. Invest. Dermatol. 123:583-588(2004).
 Allen M.,et al.Int. J. Immunogenet. 32:375-378(2005).

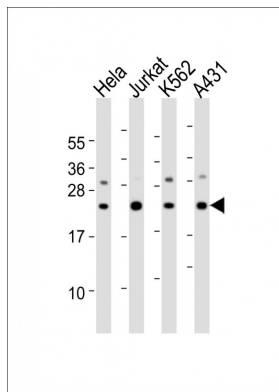
Images



AP21241a staining IL24 in human melanoma sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hour at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Overlay histogram showing U-2 OS cells stained with AP21241a (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP21241a, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) (1583138) at 1/400 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.



All lanes : Anti-IL24 Antibody at 1:2000 dilution Lane 1: HeLa whole cell lysates Lane 2: Jurkat whole cell lysates Lane 3: K562 whole cell lysates Lane 4: A431 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 24 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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