abcam

ab217627

Anti-IL27RA/WSX-1 antibody

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.4 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 48.98% TBS, 1X, 1% BSA
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Human IL27RA aa 1-100 conjugated to Keyhole Limpet Haemocyanin. The exact immunogen used to generate this antibody is proprietary information. Database link Q6UWB1
Purification technique	Affinity purification Protein A
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	1/100
Notes	-

Predicted

Species	Rat, Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/100 - 1/500
Notes	-

Predicted

Species	Rat, Human
Dilution info	-
Notes	-

Target data

See full target information IL27RA

Function	Receptor for IL27. Requires IL6ST/GP130 to mediate signal transduction in response to IL27. This signaling system acts through STAT3 and STAT1. Acts as a receptor for the neuroprotective peptide humanin as part of a complex with IL6ST/GP130 and CNTFR (PubMed:19386761). Involved in the regulation of Th1-type immune responses. Also appears to be involved in innate defense mechanisms.

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

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	The WSX-1 protein also known as IL-27Rα or TCCR is a subunit of the interleukin-27 receptor. It weighs approximately 74 kDa and is mainly expressed on various immune cells including T cells B cells and monocytes. WSX-1 engages in the immune signaling by interacting specifically with its ligand IL-27 to drive immunological responses. This receptor belongs to the type I cytokine receptor family and is structurally characterized by certain conserved motifs important for its signaling functions.
Biological function summary	WSX-1 plays a role in regulating immune cell activity and differentiation. It acts as a part of a receptor complex with gp130 to form the IL-27 receptor which transmits signals that modulate the activity of T helper cells. This signaling influences the production of pro-inflammatory and anti-inflammatory cytokines impacting immune system balance. The function of WSX-1 remains critical for controlling inflammatory responses and ensuring immune tolerance.
Pathways	WSX-1 contributes to the JAK/STAT signaling pathway and influences the differentiation of Th1 cells. The connection to JAK/STAT signaling involves various proteins such as STAT1 and STAT3 which transduce IL-27-induced signals leading to gene expression changes in immune cells. Through its action in these pathways WSX-1 regulates immune responses and can influence inflammation dynamics in various biological contexts.
Associated diseases and disorders	WSX-1 has associations with autoimmune diseases and infectious conditions. Alterations in its signaling pathways can lead to dysregulated immune responses contributing to diseases like multiple sclerosis and inflammatory bowel disease. The protein's interaction with IL-27 is central in these conditions as it influences the pro-inflammatory and regulatory functions of the immune system. Furthermore studies suggest a link between WSX-1 activity and the modulation of responses against infections linking it to potential therapeutic targets for managing related disorders.

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.

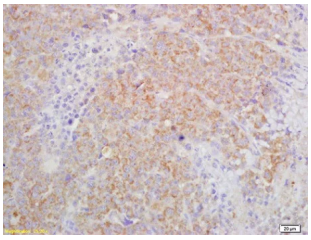
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

---

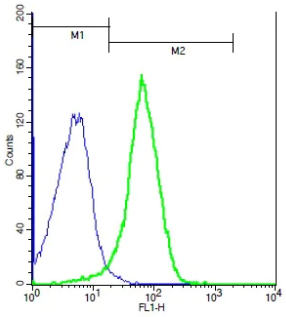
2 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL27RA/WSX-1 antibody (ab217627)

IL27RA/WSX-1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-IL27RA/WSX-1 antibody

Immunohistochemical analysis of Formalin fixed, paraffin embedded Mouse lymphoma tissue labeling WSX-1 with ab217627 at 1/200 followed by conjugation to the secondary antibody and DAB staining.



Flow Cytometry - Anti-IL27RA/WSX-1 antibody (ab217627)

IL27RA/WSX-1 Flow Cytometry staining using rabbit Anti-IL27RA/WSX-1 antibody

Flow cytometric analysis of Mouse splenocytes labeling WSX-1 with ab217627 at 1/100 dilution followed by a FITC conjugated secondary antibody (green) compared to control cells (blue).

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