abcam

ab34020

Anti-Porcine SWC8 antibody [MIL3]

Key facts

Isotype	IgM
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.09% Sodium azide
Form	Liquid
Clonality	Monoclonal
Clone number	MIL3
Purity	Tissue culture supernatant
Specificity	This antibody recognises the porcine SWC8 cell surface antigen.

Reactivity data

Flow Cyt

Expected

Species	Pig
Dilution info	-
Notes	Use 50ul of the suggested working dilution to label 10^6 cells in 100ul. ab34020 has been used in two colour flow cytometry with MIL2 to distinguish between monocytes and granulocytes. ab91545 - Mouse monoclonal IgM, is suitable for use as an isotype control with this antibody.

IHC-Fr

Expected

Species	Pig
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information Porcine SWC8

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

Supplementary info

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

Activity summary	Porcine SWC8 also known as Porcine CD172a is a surface antigen with a mass of approximately 100 kDa. This glycoprotein is expressed on a wide range of cells including monocytes granulocytes macrophages and subsets of dendritic cells in pigs. Its expression on these immune cells indicates its important role in the cellular immune response where it participates in various processes by serving as a receptor and adhesion molecule.
Biological function summary	This protein is involved in the regulation of immune responses acting as an inhibitory receptor that impacts the signaling associated with phagocytic activity. It forms part of the cell signaling complex with SHP-1 and SHP-2 two phosphatases that modulate immune cell activation through dephosphorylation of specific sites. SWC8's function in signaling ensures proper modulation of immune responses balancing activation and inhibition to prevent excessive inflammation.
Pathways	Porcine SWC8 participates in immune response and signal transduction pathways. It is closely related to proteins involved in the SIRP (Signal Regulatory Protein) family pathway. This pathway includes interactions with other SIRP family proteins such as SIRPβ and CD47 which are critical for cell-cell communication and immune

	regulation. These interactions influence cell survival proliferation and migration playing an important role in maintaining immune homeostasis.
Associated diseases and disorders	Porcine SWC8 relates to conditions affecting the immune system such as immunodeficiency and inflammation in pigs. The protein's association with regulatory pathways implies a functional connection to disorders where immune regulation is disrupted. Changes in SWC8 expression or function may relate to autoimmune diseases reflecting its importance in maintaining immune control. Through its role in signaling cascades disturbances in its activity could influence proteins like CD47 affecting how the immune system responds to internal and external threats.

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.

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