

Datasheet: AHP1226

Description:	RABBIT ANTI HUMAN CD11c
Specificity:	CD11c
Other names:	INTEGRIN ALPHA X CHAIN
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			5 - 15ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to CD11c were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative	0.1% Sodium Azide (NaN ₃)

Stabilisers

Approx. Protein Concentrations

IgG concentration 1.0mg/ml

Immunogen

Synthetic peptide: Internal domain of human CD11c, conjugated to KLH.

External Database Links

UniProt:

[P20702](#)

[Related reagents](#)

Entrez Gene:

[3687](#)

ITGAX

[Related reagents](#)

Synonyms

CD11C

RRID

AB_844585

Specificity

Rabbit anti Human CD11c antibody detects human CD11c, also known as integrin alpha X (ITGAX). Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. CD11c combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as inactivated-C3b (iC3b) receptor 4 (CR4). CD11c is ~150 kDa in size, and is expressed predominantly on tissue macrophages and dendritic cells.

CD11c binds a myriad of ligands including cell adhesion molecules (e.g. ICAM-1, ICAM-4), bacterial cell wall components (LPS), complement protein (iC3b), and matrix proteins such as fibrinogen and collagen. In light of this, CD11c has a number of functions including phagocytosis, cell migration, and cytokine production by macrophages/monocytes, as well as induction of T cell proliferation by Langerhans cells.

Histology Positive Control Tissue

Tonsil, neutrophils.

References

1. Campbell-thompson, M.L. *et al.* (2012) Staining protocols for human pancreatic islets. [J Vis Exp. \(63\): e4068.](#)

Further Reading

1. Cabañas, C. & Sánchez-Madrid, F. (1999) CD11c (leukocyte integrin CR4 alpha subunit). [J Biol Regul Homeost Agents. 13 \(2\): 134-6.](#)
2. Zang, Q. & Springer, T.A. (2001) Amino acid residues in the PSI domain and cysteine-rich repeats of the integrin beta2 subunit that restrain activation of the integrin alpha(X)beta(2). [J Biol Chem. 276 \(10\): 6922-9.](#)

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1226 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M382795:210513'

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