

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

Storage Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[100x ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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