

## Datasheet: AHP1226

<b>Description:</b>	RABBIT ANTI HUMAN CD11c
<b>Specificity:</b>	CD11c
<b>Other names:</b>	INTEGRIN ALPHA X CHAIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to CD11c were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	Synthetic peptide: Internal domain of human CD11c, conjugated to KLH.

**External Database  
Links**

**UniProt:**

[P20702](#)   [Related reagents](#)

**Entrez Gene:**

[3687](#)   ITGAX   [Related reagents](#)

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**Synonyms**

CD11C

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**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.

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**Histology Positive  
Control Tissue**

Tonsil, neutrophils.

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**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.](#)

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**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.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10303 available at:  
10303: <https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)   [FITC](#)

Sheep Anti Rabbit IgG (STAR35...)   [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Goat Anti Rabbit IgG (Fc) (STAR121...)   [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (2AB02...)

[Biotin](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight@488](#), [DyLight@549](#), [DyLight@649](#),  
[DyLight@680](#), [DyLight@800](#)

## Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000B\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000C\)](#)

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

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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