

## 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</b>          | 0.1% Sodium Azide (NaN <sub>3</sub> )   |

**Stabilisers**

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**Approx. Protein Concentrations** IgG concentration 1.0mg/ml

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

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**External Database Links****UniProt:**[P20702](#)    [Related reagents](#)**Entrez Gene:**[3687](#) ITGAX    [Related reagents](#)

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**Synonyms** CD11C

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**RRID** AB\_844585

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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** 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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information**      Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/AHP1226>  
10040

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

### Recommended Useful Reagents

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

**North & South America**      Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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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](https://www.bio-rad-antibodies.com/datasheets)

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