abcam

# ab224805

# Anti-CD11b antibody [SP330] - C-terminal

Lab Essentials | Recombinant | RabMAb | 20ul selling size

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Storage buffer** | pH: 7.2 - 7.4 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | The exact immunogen used to generate this antibody is proprietary information. |
| **Clone number** | SP330 |
| **Purification technique** | Affinity purification Protein A/G |
| **Concentration** | 0.023 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |
| **Purification notes** | Purified from TCS by protein A/G. |

## Reactivity data

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/100 |
| **Notes** | Primary incubation for 10 minutes at room temperature. |

## Flow Cyt

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/100 |
| **Notes** | Primary incubation for 30 minutes at at 4°C. |

## WB

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/400 |
| **Notes** | Primary incubation for 1 hour at room temperature. |

## Target data

See full target information ITGAM

**Function**

Integrin ITGAM/ITGB2 is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles and pathogens (PubMed:20008295, PubMed:9558116). It is identical with CR-3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the R-G-D peptide in C3b. Integrin ITGAM/ITGB2 is also a receptor for fibrinogen and factor X. It recognizes P1 and P2 peptides of fibrinogen gamma chain. Regulates neutrophil migration (PubMed:28807980). In association with beta subunit ITGB2/CD18, required for CD177-PRTN3-mediated activation of TNF primed neutrophils (PubMed:21193407). Integrin ITGAM/ITGB2 is also a receptor for ICAM1 ligand ensuring adhesion between stimulated neutrophils and stimulated endothelial cells (PubMed:1980124). May regulate phagocytosis-induced apoptosis in extravasated neutrophils (By similarity). May play a role in mast cell development (By similarity). Required with TYROBP/DAP12 in microglia to control production of microglial superoxide ions which promote the neuronal apoptosis that occurs during brain development (By similarity).

## Storage

| | |
|---|---|
| **Shipped at conditions** | Conditional Ambient |
| **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 |
| **Storage information** | Avoid freeze / thaw cycle |

## Supplementary info

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

| | |
|---|---|
| **Activity summary** | CD11b also known as Integrin alpha M is a protein with a molecular weight of approximately 170 kDa. This protein functions mechanically as an important adhesion molecule. It forms a complex with CD18 to become part of leukocyte-specific beta2 integrins specifically the Mac-1 (CR3) receptor. CD11b is largely expressed on the surface of various myeloid cells including monocytes macrophages granulocytes and a subset of natural killer cells. Researchers often utilize anti-CD11b antibodies and other markers such as APC or CD11b IHC to study its expression in different contexts. |
| **Biological function summary** | CD11b plays a critical role in various immune responses by mediating phagocytosis chemotaxis and cell migration. It is essential for proper leukocyte adherence to endothelial cells and for the engulfment of pathogens or apoptotic cells. CD11b as part of the Mac-1 complex contributes to the immune surveillance and inflammatory processes. This complex interacts with diverse ligands like ICAM-1 fibrinogen and complement component iC3b facilitating an immunological response. |
| **Pathways** | CD11b is instrumental within the integrin signaling pathway and the Leukocyte Transendothelial Migration pathway. Its interaction with ICAM-1 is central to the leukocyte adhesion cascade influencing the movement of immune cells across endothelial barriers. CD11b also associates with proteins such as Src family kinases and PI3K which activate downstream signaling responsible for the reorganization of the cytoskeleton and cell movement during immune responses. |
| **Associated diseases and disorders** | CD11b is linked to inflammatory conditions like rheumatoid arthritis and systemic lupus erythematosus. Aberrant expression or function of CD11b can result in improper immune regulation contributing to the pathogenesis of these diseases. Its interaction with complement receptor iC3b plays a part in inflammation and tissue damage observed in these conditions. Consequently CD11b represents a potential target for therapeutic intervention in diseases where dysregulated immune activity is a feature. |

## 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.

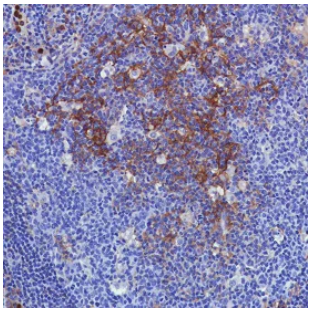
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In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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Terms & Conditions.

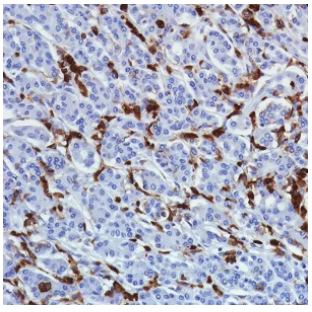
## 13 product images



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [SP330] - C-terminal (ab224805)

CD11b Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD11b antibody

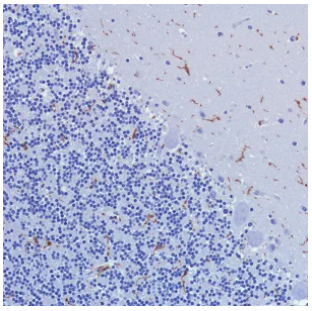
Formalin-fixed, paraffin-embedded human lymph node tissue stained for CD11b using ab224805 at 1/100 dilution in immunohistochemical analysis.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [SP330] - C-terminal (ab224805)

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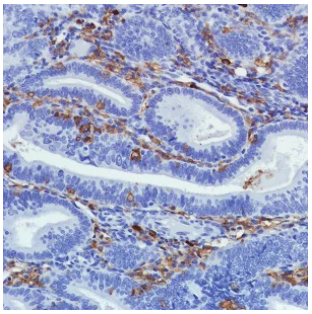
Formalin-fixed, paraffin-embedded human pancreatic adenocarcinoma tissue stained for CD11b using ab224805 at 1/100 dilution in immunohistochemical analysis.



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [SP330] - C-terminal (ab224805)

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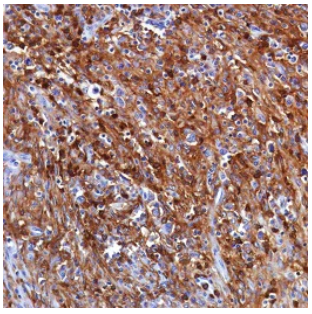
Formalin-fixed, paraffin-embedded human cerebellum tissue stained for CD11b using ab224805 at 1/100 dilution in immunohistochemical analysis.



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [SP330] - C-terminal (ab224805)

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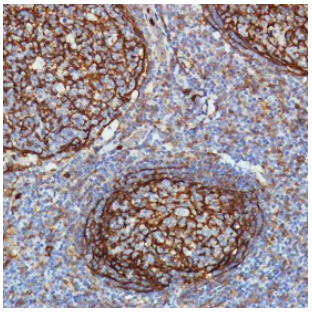
Formalin-fixed, paraffin-embedded human endometrial adenocarcinoma tissue stained for CD11b using ab224805 at 1/100 dilution in immunohistochemical analysis.



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [SP330] - C-terminal (ab224805)

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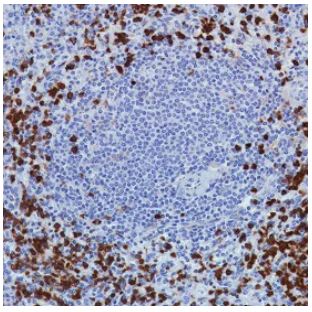
Formalin-fixed, paraffin-embedded human HK lymphoma tissue stained for CD11b using ab224805 at 1/100 dilution in immunohistochemical analysis.



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [SP330] - C-terminal (ab224805)

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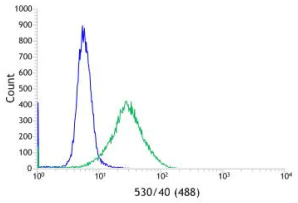
Formalin-fixed, paraffin-embedded human tonsil tissue stained for CD11b using ab224805 at 1/100 dilution in immunohistochemical analysis.



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [SP330] - C-terminal (ab224805)

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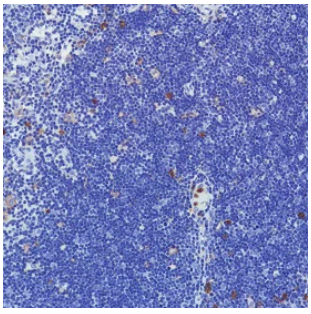
Formalin-fixed, paraffin-embedded human spleen tissue stained for CD11b using ab224805 at 1/100 dilution in immunohistochemical analysis.




## Flow Cytometry - Anti-CD11b antibody [SP330] - C-terminal (ab224805)

CD11b Flow Cytometry staining using rabbit Anti-CD11b antibody

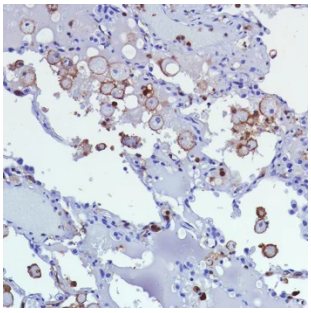
Flow cytometric analysis of TF-1 (human bone marrow erythroleukemia cell line) cell line labeling CD11b with ab224805 at 1/100 dilution (green) compared with a negative control of rabbit IgG (blue) .



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [SP330] - C-terminal (ab224805)

CD11b Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD11b antibody

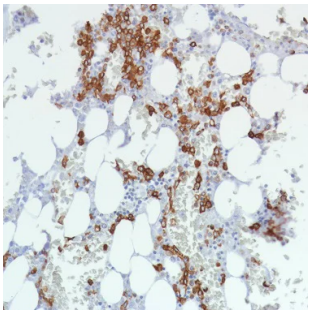
Formalin-fixed, paraffin-embedded human thymus tissue stained for CD11b using ab224805 at 1/100 dilution in immunohistochemical analysis.



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [SP330] - C-terminal (ab224805)

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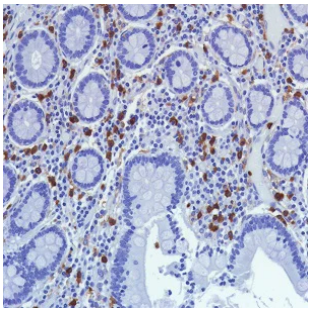
Formalin-fixed, paraffin-embedded human lung tissue stained for CD11b using ab224805 at 1/100 dilution in immunohistochemical analysis.



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [SP330] - C-terminal (ab224805)

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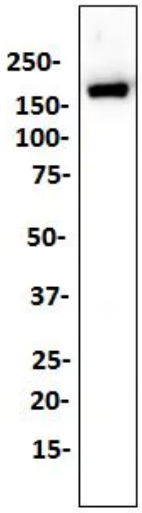
Formalin-fixed, paraffin-embedded human bone marrow tissue stained for CD11b using ab224805 at 1/100 dilution in immunohistochemical analysis.



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [SP330] - C-terminal (ab224805)

CD11b Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD11b antibody

Formalin-fixed, paraffin-embedded human colon tissue stained for CD11b using ab224805 at 1/100 dilution in immunohistochemical analysis.




# Western blot - Anti-CD11b antibody [SP330] - C-terminal (ab224805)

All lanes:
Western blot - Anti-CD11b antibody [SP330] - C-terminal (ab224805) at 1/100 dilution

All lanes:
TF-1 (human bone marrow erythroleukemia cell line) cell lysate

Predicted band size: 127 kDa

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