CD11c Monoclonal Antibody (118/A5), eBioscience™

Catalog Number 14-9761-80

Product data sheet

Details

- Size: 25 µg
- Host/Isotype: Mouse / IgG2b, kappa
- Class: Monoclonal
- Type: Antibody
- Clone: 118/A5
- Conjugate: Unconjugated
- Form: Liquid
- Concentration: 0.5 mg/mL
- Purification: Affinity chromatography
- Storage buffer: PBS, pH 7.2
- Contains: 0.09% sodium azide
- Storage Conditions: 4° C

Species Reactivity

- Species reactivity: Human

Tested Applications

- Immunohistochemistry (Frozen) (IHC (F)): 5 µg/mL
- Immunohistochemistry (Paraffin) (IHC (P)): 5 µg/mL

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

Description: The monoclonal antibody 118/A5 recognizes human CD11c, a 150 kD type I transmembrane protein which is also known as integrin alpha X. Integrins are heterodimeric integral membrane proteins made up of an alpha and a beta chain and are involved in cell adhesion. The CD11/CD18 molecules consist of three heterodimers sharing a common beta subunit (CD18) with a distinct alpha subunit (CD11a, CD11b, CD11c). The CD11c/CD18 complex is expressed on dendritic cells (highly expressed on type 1 myeloid DCs), monocytes, macrophages, granulocytes, NK cells, and subsets of T and B cells. CD11c is also expressed in hairy cell leukemias, acute nonlymphocytic leukemias, and some B-cell chronic lymphocytic leukemias. CD11c plays a role in adhesion and CTL killing through its interactions with CD54, iC3b and fibrinogen. Applications Reported: This 118/A5 antibody has been reported for use in immunohistochemical staining of frozen tissue sections, immunohistochemical staining of formalin-fixed paraffin embedded tissue sections, and microscopy. Applications Tested: This 118/A5 antibody has been tested by immunohistochemistry of formalin-fixed paraffin embedded human tissue using low or high pH antigen retrieval and can be used at less than or equal to 5 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. Purity: Greater than 90%, as determined by SDS-PAGE. Aggregation: Less than 10%, as determined by HPLC. Filtration: 0.2 µm post-manufacturing filtered.

Background/Target Information

CD11, along with CD18, form a heterodimer adhesion molecule. In particular, CD11 is composed of CD11a, CD11b and CD11c. CD11a is a leukocyte marker that is expressed in B and T lymphocytes, macrophages, monocytes, neutrophils, basophils and eosinophils. CD11b is primarily expressed by monocytes, macrophages, natural killer cells, some B and T-cells, and granulocytes. CD11c is expressed in monocytes, macrophages, natural killer cells, some granulocytes and less so in a subset of lymphocytes.

CD11c Monoclonal Antibody (118/A5), eBioscience™

Immunohistochemistry of formalin-fixed paraffin embedded human tonsil using 5 µg/mL Mouse IgG2b K Isotype Control Purified (left) or 5 µg/mL Anti-Human CD11c Purified (right) followed by Anti-Mouse IgG Biotin and Streptavidin HRP. Nuclei are counterstained with hematoxylin.