

Anti-CD11c [N418] Standard Size Ab00420-1.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric mouse antibody was made using the variable domain sequences of the original Hamster IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse IgG1, Fc Silent™, Kappa

Clone Number: N418

Alternative Name(s) of Target: Integrin alpha-X

UniProt Accession Number of Target Protein: P20702

Published Application(s): FACS, in vivo, FC, IF

Published Species Reactivity: Human, Mouse

Immunogen: Hamster spleen cells that had been primed to mouse spleen dendritic cells

Specificity: The antibody binds to mouse and human CD11c.

Application Notes: This antibody binds to human CD11, which is part of the human integrin receptor for fibrinogen, recognizing a GPR motif. The receptor is involved in cell-cell contacts, chemotaxis, and inflammatory responses. The binding of this antibody to its target was originally evaluated via FACS (Metlay et al., 1990; PMID: 2185332). This antibody was used for FC (Liu et al., 1998; PMID: 9723687). This antibody was used *in vivo* as a tool to target the delivery of a model antigen specifically to dendritic cells in mice, resulting in rapid and high antibody response (Wang et al., 2000; PMID: 10639168). Conjugating this antibody to synthetic peptides enhanced their immunogenicity (Berry et al., 2003; PMID: 10639168). This antibody was successfully used in an IF assay (AbAb internal results).

Antibody First Published in: Metlay et al. The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. Journal of Experimental Medicine 1990; 171(5):1753-71 [PMID:2185332](#)

Note on publication: Describes the generation of several hamster monoclonal antibodies against human dendritic cells.

Product Form

Size: 200 µg Purified antibody.

Purification:

Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.