

Anti-CD8a [C8/144B] Bulk Size Ab01344-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors. Developed in partnership with Ximbio (www.ximbio.com).

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

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

Clone Number: C8/144B

Alternative Name(s) of Target: Leu2; CD8; CD8A; T-cell surface glycoprotein CD8 alpha chain; T-lymphocyte differentiation antigen T8/Leu-2; CD8a; p32

UniProt Accession Number of Target Protein: P01732

Published Application(s): IP, WB, IF, IHC

Published Species Reactivity: Human

Immunogen: This antibody was raised by immunising Balb/c mice with a synthetic peptide corresponding to the 13 C-terminal residues of the cytoplasmic domain of human CD8a.

Specificity: This antibody recognises alpha chain of human CD8 (CD8a). CD8 is a cell surface receptor expressed either as a heterodimer with the CD8 beta chain (CD8 alpha/beta) or as a homodimer (CD8 alpha/alpha). CD8 is a T-cell co-receptor involved in the recognition of MHC class I molecules. It is present on cytotoxic/suppressor T lymphocytes.

Application Notes: This anti-CD8 antibody can be used to detect suppressor/cytotoxic T-cells and their neoplastic counterparts in tissue sections (van Gool et al., 2015). C8/144B has been extensively applied in multiple studies where the detection of CD8+ lymphocytes was needed, such as characterisation of various inflammatory diseases, cancer treatment etc. (Petukhova et al., 2010; Stover et al., 2018). For mature T-cells, presence of CD8 and CD4 is mutually exclusive, and thus using this anti-CD8 antibody with another one directed against CD4 might serve a way of distinguishing between different T-cell subpopulation. Furthermore, C8/144B antibody can be utilised in the identification of certain neoplasms when presence or absence of the anti-CD4 signal is of a diagnostic value. For example, in T-lymphoblastic lymphoma/leukemia, CD4 and CD8 are often co-expressed.

Antibody First Published in: Mason et al. Immunohistological detection of human cytotoxic/suppressor T cells using antibodies to a CD8 peptide sequence. J Clin Pathol. 1992 Dec;45(12):1084-8. [PMID:1479035](#)

Note on publication: This article describes generation and characterisation of C8/144B antibody.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.