

Anti-CD34 [2E 10] Standard Size Ab00981-10.3

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 human antibody was made using the variable domain sequences of the original Mouse IgG3 format, for improved compatibility with existing reagents, assays and techniques.

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

Clone Number: 2E 10

Alternative Name(s) of Target: Hematopoietic progenitor antigen; Hematopoietic progenitor cell antigen CD34

UniProt Accession Number of Target Protein: P28906

Published Application(s): WB, FC, IF

Published Species Reactivity: Human

Immunogen: The antibody was raised by repeatedly immunising BALB/c mice with KG-1a cells.

Specificity: The antibody is specific to a class III epitope on CD34, which is not susceptible to cleavage by neuraminidase, chymopapain or glycoprotease.

Application Notes: This antibody, labelled with fluorescein isothiocyanate, has been used in flow cytometry to assess the loss of expression of CD34 epitopes following enzyme incubation (Qian et al., 2008). The antibody has been used as a primary antibody against CD34 in Western blot analysis, using HRP-conjugated goat anti-mouse IgG as a secondary antibody.

Antibody First Published in: Qian et al. Development of new versions of anti-human CD34 monoclonal antibodies with potentially reduced immunogenicity Biochem Biophys Res Commun. 2008 Mar 7;367(2):497-502. [PMID:18190781](#)

Note on publication: Describes the original generation of this antibody and the construction of chimeric antibodies with human IgG constant regions.

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.