

Anti-CR1 [E11] Bulk Size Ab01219-10.3-BT

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

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: E11

Alternative Name(s) of Target: CD35; Type 1 complement receptor; C3b/C4b receptor

UniProt Accession Number of Target Protein: P17927

Published Application(s): Western blot, ELISA, IF

Published Species Reactivity: Human

Immunogen: BALB/c mice were immunised with cells from acute monocytic leukemia patients.

Specificity: E11 is reactive to neutrophilic granulocytes and eosinophils; monocytes; macrophages; lymphocytes; erythrocytes; dendritic reticulum cells; tonsil tissue section; spleen tissue section; lymph node tissue section; gut tissue section; kidney podocytes and kidney tissue sections; chronic lymphocytic leukemia; acute myelomonocytic leukemia; acute monocyte leukemia; B cell lines (JY, MST, BR17); EBV-infected B cell cultures; myeloid cell lines (U937, HL60, THP 1-0).

Application Notes: E11 fluorescence staining of normal blood cells was detectable on 90% of monocytes, 95% of neutrophils, and 14%-24% of lymphocytes (Hogg et al, 1984). Assay of E11 fluorescence-stained monocytes and neutrophils by EC3b rosette formation indicated that nearly all of the E11-stained cells formed rosettes with EC3b (Hogg et al, 1984). Treatment of erythrocytes, monocytes, neutrophils, and lymphocytes with E11 did not result in any detectable loss of CR1 activity as measured by EC3b rosette formation (Hogg et al, 1984). Immunofluorescence was used to determine E11 reactivity to a variety of cells, tissue sections, leukemias, and cell lines (Hogg et al, 1984). E11 has been used in ELISA experiments to quantify the amount of recombinant CR1 proteins (Park et al, 2013).

Antibody First Published in: Hogg et al, 1984. Identification of an anti-monocyte monoclonal antibody that is specific for membrane complement receptor type one (CR1). Eur J Immunol. 1984 Mar;14(3):236-43.

[PMID:6368248](#)

Note on publication: Describes the original production of the antibody and its characterisation through immunofluorescence.

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.