

## Anti-CD45RC [OX-22] Bulk Size Ab00562-23.0-BT

This chimeric rabbit 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:** Rabbit IgG, Kappa

**Clone Number:** OX-22

**Alternative Name(s) of Target:** L-CA; Receptor-type tyrosine-protein phosphatase C; leukocyte common antigen; T200; CD45; OX22; MRC OX22; MRC OX-22; CD45 R

**UniProt Accession Number of Target Protein:** P04157

**Published Application(s):** IP, FC, IHC

**Published Species Reactivity:** Rat

**Immunogen:** OX-22 was prepared by immunizing BALB/c mice with phytohemagglutinin-activated rat lymph node cells.

**Specificity:** OX-22 binds specifically to the high molecular weight form of the leucocyte common antigen, CD45RC. OX-22 and OX-31 compete for binding but do not compete with OX-32. The antigen is expressed on the surface of B cells, around half of bone marrow cells, all CD8+ve T cells, and is able to differentiate between CD4+CD45RChigh (Th1-like) and CD4+CD45RClow (Th2-like) cell types. CD45 extracellular domain is able to interact with a number of different proteins including CD4, TCR, CD2, Thy-1 and CD26. CD45 is important for signalling through the T cell receptor and in the selection of T and B lymphocytes.

**Application Notes:** OX-20 can be used for both FC and IHC (paraffin/frozen) studies. It can also be used to purify proteins by affinity-purification (Woolett et al. Eur J Immunol. 1985 Feb;15(2):168-73).

**Antibody First Published in:** Spickett et al. MRC OX-22, a monoclonal antibody that labels a new subset of T lymphocytes and reacts with the high molecular weight form of the leukocyte-common antigen. J Exp Med. 1983 Sep 1;158(3):795-810. [PMID:6224884](#)

**Note on publication:** Describes the use of OX-22 to analyse CD45RC tissue distribution and antigen characterisation which enable the identification of distinct subsets of T cells.

## 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.