

Anti-CD48 [OX-45] Standard Size Ab00571-8.1

This chimeric rat 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: Rat IgG2b, Kappa

Clone Number: OX-45

Alternative Name(s) of Target: BCM1; BCM1 surface antigen; BLAST1; BLAST-1; HM48-1; MRC OX-45 surface antigen; MRC OX45 surface antigen; OX45 surface antigen; OX-45 surface antigen; SLAM family member 2; SLAMF2; sgp60; sgp-60; signalling lymphocytic activation molecule 2 OX45; MRC OX-4

UniProt Accession Number of Target Protein: P10252

Published Application(s): Blocking, FC

Published Species Reactivity: Rat

Immunogen: OX-45 was prepared by immunizing BALB/c mice with rat T blasts prepared by stimulating purified T helper (TH) cells with allogeneic irradiated rat spleen cells.

Specificity: OX-45 binds specifically to CD48 on rat thymocytes, T and B cells and endothelium but not LFA.3. Directly competes with CD46 for binding the target epitope. CD48 is a CD2 ligand and is expressed on the surface of all hematopoietic cells and endothelium. May be involved in the facilitation of interactions between activated lymphocytes. Likely to be involved in T cell activation.

Application Notes: Describes the use of OX-45 in blocking the primary mixed lymphocyte response (MLR) and the secondary response of T lymphocytes to the soluble antigen DNP-BGG. It also showed that OX-45 did not have any effect on the cytotoxic activity of specific (CTL) or non-specific (NK) killer cells or on proliferative responses stimulated by lectins or oxidative mitogenesis.

Antibody First Published in: Arvieux et al. Monoclonal antibodies against a rat leucocyte antigen block antigen-induced T-cell responses via an effect on accessory cells. Immunology 58:337 1986 [PMID:2942461](#)

Note on publication: Monoclonal antibodies against a rat leucocyte antigen block antigen-induced T-cell responses via an effect on accessory 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.