

CD48 recombinant antibody

Anti-CD48 [OX-45], Mouse IgG1, kappa

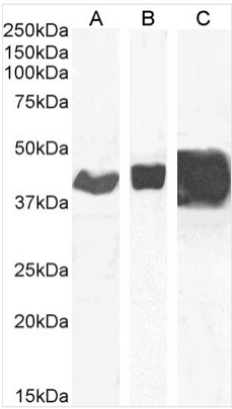
CATALOG # AAA72468	HOST Mouse	REACTIVITY Rat	APPLICATIONS Flow Cytometry, Functional Assay
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PRODUCT SYNONYMS

CD48; Monoclonal Recombinant Antibody; Anti-CD48 [OX-45]; Mouse IgG1; kappa; 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; CD48 recombinant antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Rat
Clonality	Monoclonal
Isotype	Mouse IgG1 kappa
Clone Number	OX-45
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.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for CD48 recombinant antibody	FCM/FACS (Flow Cytometry), Blocking
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



WB (Western Blot)
Western Blot using anti-CD48 antibody OX-45 (AA72468) Ratspleen (A), thymus (B) and lymph node (C) tissue lysates samples (35 µg protein in RIPA buffer) were resolved on a 10% SDS PAGE gel and blots probed with the chimeric rabbit version of OX-45 (AA72468) at 0.001 µg/ml before detection using an anti-rabbit secondary antibody. A primary incubation of 1 h was used and protein was detected by chemiluminescence. The expected running size for CD48 is ~37-56 kDa and it is heavily glycosylated as well as lipidated (UniProt ID: P10252). AA72468 successfully detected CD48 in rat spleen, thymus and lymph node tissue lysates.

FCM/FACS
Flow-cytometry
chimeric version
45 (B, AA72468)
rabbit antibody

ADDITIONAL INFORMATION

Related Product Information for CD48 recombinant antibody	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.
References	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 N/A2942461 Note on publication: Monoclonal antibodies against a rat leucocyte antigen block antigen-induced T-cell responses via an effect on accessory cells.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20806147
NCBI GeneID	245962
NCBI Accession #	NP_620803.1
NCBI GenBank Nucleotide #	NM_139103.1
UniProt Accession #	P10252
Molecular Weight	27,680 Da
NCBI Official Full Name	CD48 antigen
NCBI Official Synonym Full Names	Cd48 molecule
NCBI Official Symbol	Cd48
NCBI Official Synonym Symbols	SLAMF2
NCBI Protein Information	CD48 antigen; BCM1 surface antigen; BLAST-1; MRC OX-45 surface antigen; SLAM family member 2; signaling lymphocytic activation molecule 2
UniProt Protein Name	CD48 antigen
UniProt Gene Name	Cd48
UniProt Synonym Gene Names	Bcm-1; SLAMF2
UniProt Entry Name	CD48_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd48-recombinant-antibody-clone-ox-45-flow-cytometry-elisa/72468>