

Product Information	
Catalog No.	BS10131
Product name	Anti-Human CD45 Reference Antibody (Apamistamab, RUO)
Applications	ELISA, Bioactivity: FACS, Functional assay, Research in vivo
Species reactivity	Human
Host species	Mouse
Clonality	Monoclonal
Isotype	IgG1-kappa
Form	Liquid
Storage buffer	0.01M PBS, pH 7.4.
Concentration	1mg/ml
Purity	>95% purity as determined by SDS-PAGE.
Purification	Protein A/G purified from cell culture supernatant.
Target	T200, Leukocyte common antigen, CD45, L-CA, Receptor-type tyrosine-protein phosphatase C, PTPRC
Expression system	Mammalian Cells
Accession	P08575
Endotoxin level	Please contact the lab for this information.
Stability and Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Store at 4°C for short-term storage (1-2 weeks). Store at -20°C for up to 12 months. For long-term storage, store at -80°C.
Note	For research use only. Not suitable for clinical or therapeutic use.

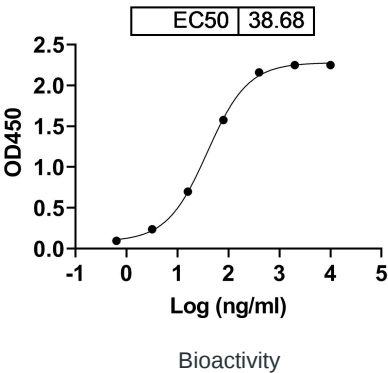
Background

Apamistamab is a monoclonal antibody developed for targeted radiotherapy in hematologic malignancies. It is commonly used in radioimmunotherapy as a carrier for radioactive isotopes, facilitating the targeted destruction of malignant cells while minimizing damage to healthy tissues. It has been studied primarily in the context of conditioning regimens for hematopoietic stem cell transplantation, particularly in treating relapsed or refractory leukemias and lymphomas.

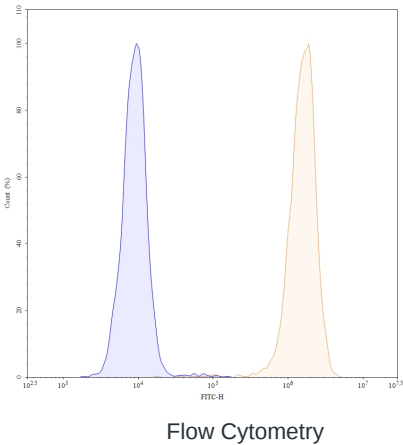
- Protein tyrosine phosphatase receptor type C (PTPRC or CD45)., PMID:34039664
- Immune receptor inhibition through enforced phosphatase recruitment., PMID:33087934
- Orientation-dependent CD45 inhibition with viral and engineered ligands., PMID:39454026
- Innate immune remodeling by short-term intensive fasting., PMID:34705313
- CD45-negative follicular lymphoma., PMID:32163561
- Dynamics of Cell Generation and Turnover in the Human Heart., PMID:26073943
- The Roseoloviruses Downregulate the Protein Tyrosine Phosphatase PTPRC (CD45)., PMID:33952641
- CD45-PET is a robust, non-invasive tool for imaging inflammation., PMID:39843738
- Membrane-Proximal Epitope Facilitates Efficient T Cell Synapse Formation by Anti-FcRH5/CD3 and Is a Requirement for Myeloma Cell Killing., PMID:28262555
- The Protein Tyrosine Phosphatase SHP-1 (PTPN6) but Not CD45 (PTPRC) Is Essential for the Ligand-Mediated Regulation of CD22 in

Image Data

Apamistamab binds with CD45/PTPRC



Detects Human CD45/PTPRC in indirect ELISAs.



Flow-cytometry using anti-human CD45 antibody. Jurkat cells were stained with an irrelevant antibody (Blue Histogram) or an anti-human CD45 monoclonal antibody (Catalog HY195016, Yellow Histogram) at a concentration of 5 µg/ml for 30 mins at RT. After washing, bound antibody was detected using a a Goat Anti-Mouse IgG H&L Polyclonal Antibody, FITC (abinScience: MF690414) and cells analysed on a NovoCyte Flow Cytometer.