

Mouse anti-Human CD52 Monoclonal Antibody | anti-CD52 antibody

Anti-Hu CD52 PE

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA129161	Mouse	Human	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD52; Monoclonal Antibody; Anti-Hu CD52 PE; CAMPATH-1; HE5; ESPE5; CD52 molecule; anti-CD52 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG3
Clone Number	4C8
Specificity	The mouse monoclonal antibody 4C8 recognizes CD52, a GPI-anchored glycopeptide expressed on the surface of lymphocytes, macrophages, epithelial cells of male reproductive tract, and mature sperms.
Purity/Purification	The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide
Applicable Applications for anti-CD52 antibody	FCM/FACS (Flow Cytometry)
Conjugation	PE
Immunogen	human lymphocytes
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

ADDITIONAL INFORMATION

Related Product Information for anti-CD52 antibody	CD52 (CAMPATH-1, HE5) is a highly glycosylated GPI-anchored 21-28kDa glycopeptide which is present at high levels on lymphocytes, macrophages, epithelial cells of male reproductive tract and mature sperm. Its 12-amino acid backbone carries a complex N-linked carbohydrate moiety, which differs between sperm and leukocyte CD52, as well as the GPI anchor does. CD52 can be acquired by sperm cells from seminal plasma, where it is released by epithelial cells. Although CD52 is not an essential T-cell costimulator, its triggering results in activation of normal human T cells. CD52 is a very good target for antibody/complement-mediated cell lysis.
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References	*Masuyama J, Kaga S, Kano S, Minota S: A novel costimulation pathway via the 4C8 antigen for the induction of CD4+ regulatory T cells. J Immunol. 2002 Oct 1;169(7):3710-6., URL: https://pubmed.ncbi.nlm.nih.gov/12244164/from_term=masuyama+kaga+&from_pos=4,*Masuyama J, Yoshio T, Suzuki K, Kitagawa S, Iwamoto M, Kamimura T, Hirata D, Takeda A, Kano S, Minota S: Characterization of the 4C8 antigen involved in transendothelial migration of CD26(hi) T cells after tight adhesion to human umbilical vein endothelial cell monolayers. J Exp Med. 1999 Mar 15;189(6):979-90., URL: https://pubmed.ncbi.nlm.nih.gov/10075981/from_term=masuyama+yoshio+suzuki&from_schema=all&from_pos=3,*Toh BH, Kyaw T, Tipping P, Bobik A: Immune Regulation by CD52-expressing CD4 T Cells. Cell Mol Immunol. 2013 Sep;10(5):379-82., URL: https://pubmed.ncbi.nlm.nih.gov/23934027/from_term=tipping+p+bobik+a+kyaw&from_page=2&from_pos=6,*Watanabe T, Masuyama J, Sohma Y, Inazawa H, Horie K, Kojima K, Uemura Y, Aoki Y, Kaga S, Minota S, Tanaka T, Yamaguchi Y, Kobayashi T, Serizawa I: CD52 is a novel costimulatory molecule for induction of CD4+ regulatory T cells. Clin Immunol. 2006 Sep;120(3):247-59., URL: https://pubmed.ncbi.nlm.nih.gov/16797237/from_term=watanabe+inazawa&from_page=2&from_pos=7 *Schröter S, Derr P, Conradt HS, Nimtz M, Hale G, Kirchhoff C: Male-specific modification of human CD52. J Biol Chem. 1999 Oct 15;274(42):29862-73., URL: https://www.ncbi.nlm.nih.gov/pubmed/10514467ordin,*Treumann A, Lifely MR, Schneider P, Ferguson MA: Primary structure of CD52. J Biol Chem. 1995 Mar 17;270(11):6088-99., URL: https://www.ncbi.nlm.nih.gov/pubmed/7890742ordina,*Rowan WC, Hale G, Tite JP, Brett SJ: Cross-linking of the CAMPATH-1 antigen (CD52) triggers activation of normal human T lymphocytes. Int Immunol. 1995 Jan;7(1):69-77., URL: https://www.ncbi.nlm.nih.gov/pubmed/7718516ordina,*Koyama K, Ito K, Hasegawa A: Role of male reproductive tract CD52 (mrt-CD52) in reproduction. Soc Reprod Fertil Suppl. 2007;63:103-10., URL: https://www.ncbi.nlm.nih.gov/pubmed/17566265ordin,*Domaga?a A, Kurpisz M: CD52 antigen--a review. Med Sci Monit. 2001 Mar-Apr;7(2):325-31., URL: https://www.ncbi.nlm.nih.gov/pubmed/11257744ordin
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NCBI AND UNIPROT INFORMATION

NCBI GI #	399214
NCBI GeneID	1043
UniProt Accession #	P31358 ; Q5T138 ; Q9BW46
Molecular Weight	6,614 Da
NCBI Official Full Name	CAMPATH-1 antigen
NCBI Official Synonym Full Names	CD52 molecule
NCBI Official Symbol	CD52
NCBI Official Synonym Symbols	CDW52; EDDM5
NCBI Protein Information	CAMPATH-1 antigen
UniProt Protein Name	CAMPATH-1 antigen
UniProt Gene Name	CD52
UniProt Synonym Gene Names	CDW52; HE5; He5

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/cd52-antibody-clone-4c8-flow-cytometry-elisa/129161>