

Mouse anti-Human CD53 Monoclonal Antibody | anti-CD53 antibody

Anti-CD53 [HD77]

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72140	Mouse	Human	Immunoprecipitation, Western Blot, Immunofluorescence, Immunohistochemistry, Flow Cytometry, Functional Assay

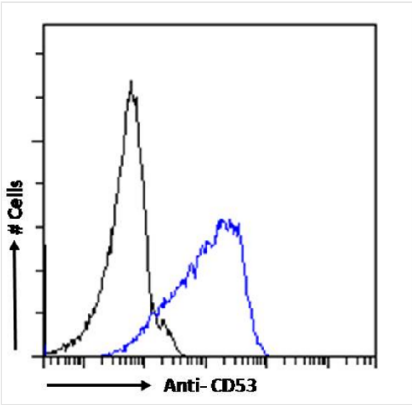
PRODUCT SYNONYMS

CD53; Monoclonal Antibody; Anti-CD53 [HD77]; TSPAN-25; Leukocyte surface antigen CD53; Tetraspanin-25; MOX44; TSPAN25; anti-CD53 antibody

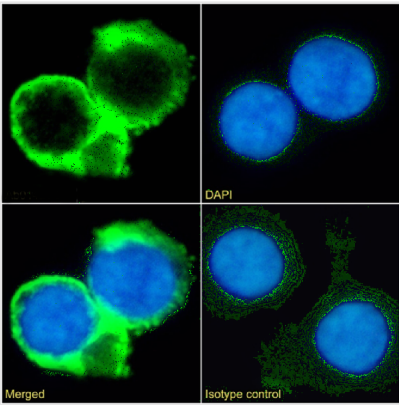
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1, kappa
Clone Number	HD77
Specificity	This antibody is specific for the extracytoplasmic part of human CD53, a pan-leukocyte antigen.
Purity/Purification	Purified antibody. Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD53 antibody	IP (Immunoprecipitation), WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
PMID	2228310
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

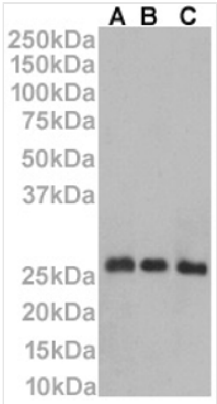
IMAGES



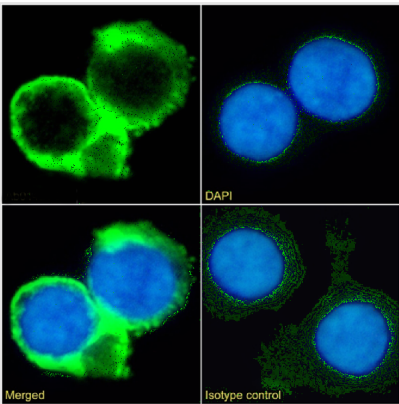
FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-CD53 antibody HD77 . Paraformaldehyde fixed Daudi cells were stained with anti-unknown specificity antibody or the rabbit IgG version of HD77 at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.



IF (Immunofluorescence)
Immunofluorescence staining of fixed Daudi cells with anti-CD53 antibody HD77
Immunofluorescence analysis of paraformaldehyde fixed Daudi cells on Shi-fix coverslips stained with the chimeric rabbit IgG version HD77 at 10ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.



WB (Western Blot)
Western Blot using anti-CD53 antibody HD77 Human lymph node (A), human thymus (B) and human spleen (C) tissue lysates (35ug protein in RIPA buffer) were resolved on a SDS PAGE gel and blots were probed with the chimeric rabbit version of HD77 at 0.1ug/ml, 0.3ug/ml and 0.5ug/ml, respectively, before detection using an anti-rabbit secondary antibody. A primary incubation of 1h was used and protein was detected by chemiluminescence.



IF (Immunofluorescence)
Immunofluorescence staining of fixed Daudi cells with anti-CD53 antibody HD77
Immunofluorescence analysis of paraformaldehyde fixed Daudi cells on Shi-fix coverslips stained with the chimeric rabbit IgG version HD77 at 10ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CD53 antibody	Recombinant monoclonal antibody to CD53. Recombinant Platform with variable regions (i.e. specificity) from the hybridoma HD77. German Cancer Reserach Center (DKFZ) This antibody was raised by immunising mice with human leukemia cells.
Product Categories/Family for anti-CD53 antibody	oncology
References	Mechtersheimer et al. Expression of HLA-A,B,C, beta 2-microglobulin (beta 2m), HLA-DR, -DP, -DQ and of HLA-D-associated invariant chain (Ii) in soft-tissue tumors. Int J Cancer. 1990 Nov 15;46(5):813-23. Note on publication: Describes the original use of this antibody, and its use in immunohistochemical analysis of frozen tissue sections.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10834972
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NCBI GeneID	963
NCBI Accession #	NP_000551.1
NCBI GenBank Nucleotide #	NM_000560.3
UniProt Accession #	P19397; Q5U0D6; B2R905
Molecular Weight	24,341 Da
NCBI Official Full Name	leukocyte surface antigen CD53
NCBI Official Synonym Full Names	CD53 molecule
NCBI Official Symbol	CD53
NCBI Official Synonym Symbols	MOX44; TSPAN25
NCBI Protein Information	leukocyte surface antigen CD53; CD53 antigen; CD53 glycoprotein; CD53 tetraspan antigen; antigen MOX44 identified by monoclonal antibody MRC-OX44; cell surface antigen; cell surface glycoprotein CD53; tetraspanin-25; transmembrane glycoprotein; tspan-25
UniProt Protein Name	Leukocyte surface antigen CD53
UniProt Gene Name	CD53
UniProt Synonym Gene Names	MOX44; TSPAN25; Tspan-25
UniProt Entry Name	CD53_HUMAN

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/cd53-antibody-clone-hd77-immunoprecipitation-western-blot-immunofluorescence-immunohistochemistry-flow-cytometry-elisa/72140>