

CD98 heavy chain Recombinant Antibody | CD98 recombinant antibody

Anti-CD98 heavy chain [HBJ127]

CATALOG # AAA72006	REACTIVITY Human	APPLICATIONS Immunofluorescence, ELISA
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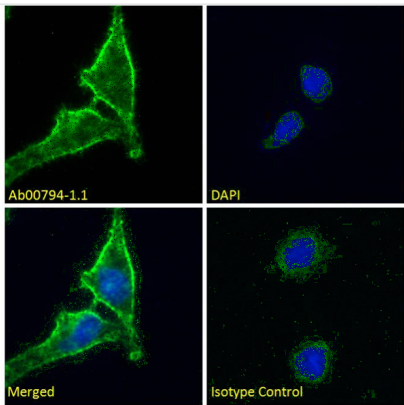
PRODUCT SYNONYMS

CD98 heavy chain; Monoclonal Recombinant Antibody; Anti-CD98 heavy chain [HBJ127]; HBJ 127; HBJ-127; GP125; 4F2 cell-surface antigen heavy chain; 4F2hc; 4F2 heavy chain antigen; Lymphocyte activation antigen 4F2 large subunit; Solute carrier family 3 member 2; CD98 recombinant antibody

PRODUCT SPECIFICATIONS

Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1, Kappa
Clone Number	HBJ127
Specificity	HBJ127 binds to the CD98 heavy chain at an epitope consisting of residues AFS (aa 442-444) (Itoh et al, 2007). The antibody has not been shown to cross-react with other species. CD98 is expressed at high levels on monocytes and at very low level on peripheral blood T and B lymphocytes, splenocytes, NK cells and granulocytes. CD98 is a disulfide-linked and glycosylated type II integral membrane protein. This protein has roles in normal and neoplastic cell growth and is required for the function of light chain amino acid transporters. It is also involved in sodium-independent transport of large neutral amino acids and in guiding and targeting LAT1 and LAT2 to the plasma membrane. When associated with SLC7A6 or SLC7A7, CD98 acts as an arginine/glutamine exchanger.
Purity/Purification	Protein A Affinity Purified
Concentration	1 mg/ml (varies by lot)
Sequence Length	631
Applicable Applications for CD98 recombinant antibody	IF (Immunofluorescence), ELISA, Activity Assay, Blocking
Immunogen	HBJ127 was obtained from hybridomas generated by the fusion of mouse myeloma cells and spleen cells from mice which had been immunized with T24 human bladder cancer cells.
Buffer Composition	PBS only with 0.02% Proclin 300.
Note on publication	Describes the in vitro effect of HBJ127 and other mAbs on lymphocyte activation and proliferation, and gave evidence to suggest that the HBJ127 antigen was important in the activation of lymphocytes and its subsequent progression through the cell cycle.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.

IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of fixed HeLa cells with anti-CD98 heavy chain antibody HBJ127 (Ab00794) Immunofluorescence analysis of paraformaldehyde fixed HeLa cells on Shi-fix™ coverslips, permeabilized with 0.15% Triton and stained with the chimeric mouse IgG1 version of HBJ127 (Ab00794-1.1) at 10 ug/ml for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom Ab00794-1.1, DAPI, merged channels and an isotype control. The isotype control was stained with an unknown specificity antibody (Ab00178-1.1) followed by Alexa Fluor® 488 secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for CD98 recombinant antibody	Recombinant monoclonal antibody to CD98 heavy chain. Manufactured using a proprietary Recombinant Platform with variable regions (i.e. specificity) from the hybridoma HBJ127. HBJ127 was obtained from hybridomas generated by the fusion of mouse myeloma cells and spleen cells from mice which had been immunized with T24 hyman bladder cancer cells.
Product Categories/Family for CD98 recombinant antibody	Cancer; Oncology; CD Marker; Cell Cycle
References	Yagita et al. Monoclonal antibodies that inhibit activation and proliferation of lymphocytes. I. Expression of the antigen on monocytes and activated lymphocytes. J Immunol. 1986 Mar 15; 136(6):2055-61. PMID:3950410

NCBI AND UNIPROT INFORMATION

NCBI GI #	61744477
NCBI GeneID	6520
NCBI Accession #	NP_001012680.1
NCBI GenBank Nucleotide #	NM_001012662.2
UniProt Accession #	P08195; Q13543
NCBI Official Full Name	4F2 cell-surface antigen heavy chain isoform b
NCBI Official Synonym Full Names	solute carrier family 3 member 2
NCBI Official Symbol	SLC3A2
NCBI Official Synonym Symbols	4F2; CD98; MDU1; 4F2HC; 4T2HC; NACAE; CD98HC
NCBI Protein Information	4F2 cell-surface antigen heavy chain
UniProt Protein Name	4F2 cell-surface antigen heavy chain
UniProt Gene Name	SLC3A2
UniProt Synonym Gene Names	MDU1; 4F2hc

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/cd98-heavy-chain-recombinant-antibody-clone-hbj127-immunofluorescence-elisa/72006>