

Mouse anti-Human CD98 Antibody | anti-CD98 antibody

Anti-CD98 [EP3-1], Mouse IgG1

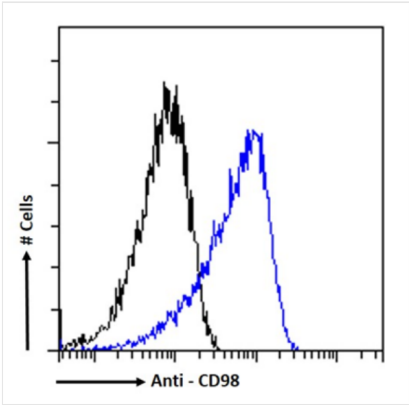
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72246	Mouse	Human	Immunoprecipitation, Immunofluorescence

PRODUCT SYNONYMS

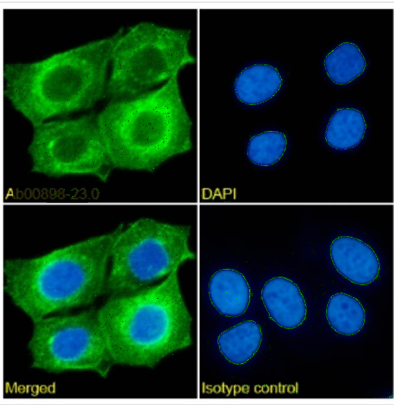
CD98; Anti-CD98 [EP3-1]; Mouse IgG1; LAT1; E16; MPE16; SLC7A5; anti-CD98 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Isotype	Mouse IgG1, Kappa
Clone Number	EP3-1
Specificity	Shown to bind to epitopes of sequences; LLHGDFHAFSAG-GGGC-NH2, LLHGDFH-GGGC-HN2, and FHAFSAG-GGGC-NH2, but showed no reactivity to live HeLa cells by IF.
Purity/Purification	Protein A affinity purified
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-CD98 antibody	IP (Immunoprecipitation), IF (Immunofluorescence)
Immunogen	Immunised mice and constructed IgG1 Fab phage display libraries from the spleen cells. CD98-reactive recombinant Fab fragments were retrieved by epitope peptide panning.
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



FCM/FACS (Flow Cytometry)
Flow cytometry using the Anti-CD98 antibody EP3-1 (AAA72246). Paraformaldehyde fixed MCF7 cells permeabilized with 0.5% Triton were stained with anti-unknown specificity antibody or the rabbit IgG version of EP3-1 (AAA72246-23.0, blue line) 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 MCF7 cells with antiCD98 (AAA72246) EP3-1. Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells stained with the chimeric rabbit IgG version of EP3-1 (AAA72246-23.0) 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 AAA72246-23.0, 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-CD98 antibody	CD98 may be a target for T or B cell immune responses against tumour cells in cancer patients (Itoh 2008).
Product Categories/Family for anti-CD98 antibody	Cancer; Immunology; biosimilar
References	Itoh Antibody epitope peptides as potential inducers of IgG antibodies against CD98 oncoprotein. Cancer Sci. 2009 Jan;100(1):126-31. PMID:19018757

NCBI AND UNIPROT INFORMATION

NCBI GI #	71979932
NCBI GeneID	8140
NCBI Accession #	NP_003477.4
NCBI GenBank Nucleotide #	NM_003486.5
UniProt Accession #	Q01650; Q8IV97; Q9UBN8; Q9UP15; Q9UQC0
Molecular Weight	55,010 Da
NCBI Official Full Name	large neutral amino acids transporter small subunit 1
NCBI Official Synonym Full Names	solute carrier family 7 (amino acid transporter light chain, L system), member 5
NCBI Official Symbol	SLC7A5
NCBI Official Synonym Symbols	E16; CD98; LAT1; 4F2LC; MPE16; hLAT1; D16S469E
NCBI Protein Information	large neutral amino acids transporter small subunit 1; 4F2 LC; 4F2 light chain; CD98 light chain; integral membrane protein E16; L-type amino acid transporter 1; solute carrier family 7 member 5; large neutral amino acids transporter 1; y+ system cationic
UniProt Protein Name	Large neutral amino acids transporter small subunit 1
UniProt Gene Name	SLC7A5
UniProt Synonym Gene Names	CD98LC; LAT1; MPE16; 4F2 LC; 4F2LC; hLAT1

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/mouse-human-antibody/cd98/72246>