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Datasheet

SLC3A2 monoclonal antibody, clone MEM-108 (FITC)

Catalog Number: MAB5041

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native SLC3A2.

Clone Name: MEM-108

Immunogen: Native purified SLC3A2 from Raji Burkitt's lymphoma cell line.

Host: Mouse

Theoretical MW (kDa): 125

Reactivity: Human

Applications: Flow Cyt
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: This antibody reacts with CD98, a 125 KDa disulfide-linked heterodimer (80 KDa glycosylated heavy chain + 45 KDa non-glykosylated light chain).

Form: Liquid

Conjugation: FITC

Isotype: IgG1

Recommend Usage: Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.2% BSA, 0.09% sodium azide)

Storage Instruction: Store in the dark at 4°C. Do not freeze.
Avoid prolonged exposure to light.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 6520

Gene Symbol: SLC3A2

Gene Alias: 4F2, 4F2HC, 4T2HC, CD98, CD98HC, MDU1, NACAE

Gene Summary: This gene is a member of the solute carrier family and encodes a cell surface, transmembrane protein with an alpha amylase domain. The protein exists as the heavy chain of a heterodimer, covalently bound through di-sulfide bonds to one of several possible light chains. It associates with integrins and mediates integrin-dependent signaling related to normal cell growth and tumorigenesis. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]

References:

1. Differential effect of cross-linking the CD98 heavy chain on fusion and amino acid transport in the human placental trophoblast (BeWo) cell line. Dalton P, Christian HC, Redman CW, Sargent IL, Boyd CA. Biochim Biophys Acta. 2007 Mar;1768(3):401-10. Epub 2006 Dec 13.
2. CD98 modulates integrin beta1 function in polarized epithelial cells. Cai S, Bulus N, Fonseca-Siesser PM, Chen D, Hanks SK, Pozzi A, Zent R. J Cell Sci. 2005 Mar 1;118(Pt 5):889-99. Epub 2005 Feb 15.
3. CD98-dependent homotypic aggregation is associated with translocation of protein kinase Cdelta and activation of mitogen-activated protein kinases. Cho JY, Skubitz KM, Katz DR, Chain BM. Exp Cell Res. 2003 May 15;286(1):1-11.