

Datasheet for ABIN968570

anti-SLC3A2 antibody (AA 9-204)



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Overview

Quantity:	50 µg
Target:	SLC3A2
Binding Specificity:	AA 9-204
Reactivity:	Chemical
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SLC3A2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Rat 4F2 hc aa. 9-204
Clone:	30-CD98HC
Isotype:	IgG1
Characteristics:	<ol style="list-style-type: none"> 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us for technical protocols. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	SLC3A2
Alternative Name:	CD98HC (SLC3A2 Products)
Target Type:	Chemical
Background:	<p>4F2 antigen (CD98) was identified as a heterodimer consisting of an 80 kDa type II glycosylated integral membrane protein 4F2 heavy chain (4F2 hc) linked by disulfide bonds to a hydrophobic, non-glycosylated, 37 kDa protein 4F2 light chain (4F2 lc). The 4F2 hc colocalizes with cadherins at cell adhesion sites and is required for the intracellular targeting of 4F2 heterodimers. 4F2 hc also associates with beta1 integrins and overexpression of 4F2 reverses the suppression of beta1 integrin activation caused by overexpression of beta1 cytoplasmic domains. 4F2 has also been identified as a fusion regulatory protein FRP-1, since anti-FRP-1 antibodies can induce HIV-mediated cell fusion via an integrin system. 4F2 heterodimers are also important for activation of amino acid transport. 4F2 hc is 30% homologous with the amino acid transport activator D2/rBAT and expression of 4F2 hc in <i>Xenopus</i> oocytes induces system y+L amino acid transport. Thus, 4F2 hc may participate in intracellular trafficking and activation of amino acid transporters, as well as in the regulation of integrin signaling.</p> <p>Synonyms: 4F2 hc</p>
Molecular Weight:	80 kDa

Application Details

Comment:	Related Products: ABIN967389, ABIN968548
Restrictions:	For Research Use only

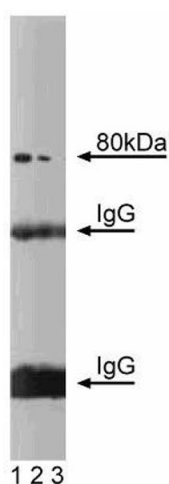
Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

Publications

- Product cited in: Nakamura, Sato, Yang, Miyagawa, Harasaki, Tomita, Matsuoka, Noma, Iwai, Minato: "4F2 (CD98) heavy chain is associated covalently with an amino acid transporter and controls intracellular trafficking and membrane topology of 4F2 heterodimer." in: **The Journal of biological chemistry**, Vol. 274, Issue 5, pp. 3009-16, (1999) ([PubMed](#)).
- Tsurudome, Ito, Takebayashi, Okumura, Nishio, Kawano, Kusagawa, Komada, Ito: "Cutting edge: primary structure of the light chain of fusion regulatory protein-1/CD98/4F2 predicts a protein with multiple transmembrane domains that is almost identical to the amino acid transporter E16." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 162, Issue 5, pp. 2462-6, (1999) ([PubMed](#)).
- Kanai, Segawa, Miyamoto, Uchino, Takeda, Endou: "Expression cloning and characterization of a transporter for large neutral amino acids activated by the heavy chain of 4F2 antigen (CD98)." in: **The Journal of biological chemistry**, Vol. 273, Issue 37, pp. 23629-32, (1998) ([PubMed](#)).
- Fenczik, Sethi, Ramos, Hughes, Ginsberg: "Complementation of dominant suppression implicates CD98 in integrin activation." in: **Nature**, Vol. 390, Issue 6655, pp. 81-5, (1997) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of CD98HC on rat liver lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution on CD98HC.

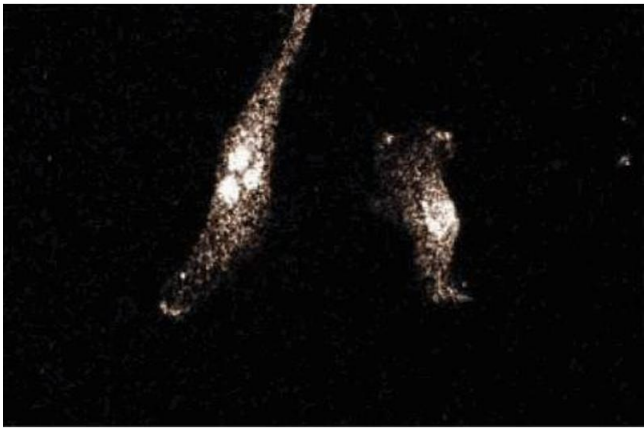


Image 2. Chick Fibroblast

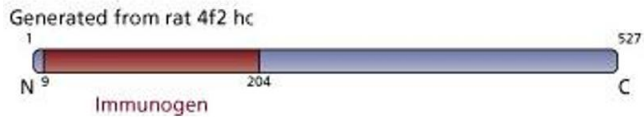


Image 3.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN968570.