

# Product Datasheet

## CD98 Antibody (HBJ127) - Azide and BSA Free NBP2-81108-0.2mg

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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**NBP2-81108-0.2mg**

CD98 Antibody (HBJ127) - Azide and BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
Clonality	Monoclonal
Clone	HBJ127
Preservative	0.02% Proclin 300
Isotype	IgG1 Kappa
Purity	Protein A purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Mouse CD98 Antibody (HBJ127) - Azide and BSA Free (NBP2-81108) is a recombinant monoclonal antibody validated for use in ELISA and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	6520
Gene Symbol	SLC3A2
Species	Human
Specificity/Sensitivity	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.
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.

Product Application Details	
Applications	ELISA, Functional, Immunocytochemistry/ Immunofluorescence, Block/Neutralize
Recommended Dilutions	ELISA, Immunocytochemistry/ Immunofluorescence, Functional, Block/Neutralize

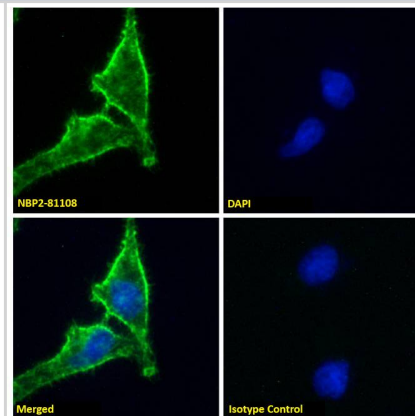


**Application Notes**

HBJ127 can inhibit lymphocyte activation and proliferation in vitro (Yagita and Hashimoto, 1986), as well as inhibit the growth of human bladder tumors (Yagita, 1986). The antibody also mediates the inhibition of DNA synthesis of Con A-stimulated lymphocytes at concentrations greater than 13 ug/ml, the inhibition of mAb 6-1-13-induced c-src expression and the inhibition of mAb 6-1-13-induced polykaryocyte formation. In addition, HBJ127 can enhance expression of the mannose receptor on the surface of monocytes derived from healthy humans. HBJ127 shows positive staining of murine L929 cells transiently expressing human CD98 heavy chain in IF studies. The antibody can also be used to detect CD98 heavy chain by ELISA.

**Images**

Immunocytochemistry /Immunofluorescence: CD98 Antibody (HBJ127) - Azide and BSA Free [NBP2-81108] - Immunofluorescence staining of fixed HeLa cells with [NBP2-81108]. Immunofluorescence analysis of paraformaldehyde fixed HeLa cells on Shi-fix coverslips, permeabilized with 0.15% Triton and stained with NBP2-81108 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 NBP2-81108, DAPI, merged channels and an isotype control. The isotype control was stained with an unknown specificity antibody followed by Alexa Fluor 488 secondary antibody.





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### **Products Related to NBP2-81108-0.2mg**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-61178-50ug	Recombinant Human CD98 His Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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