

# Product Datasheet

## CD44 Antibody (Hermes-1) - Chimeric - Azide and BSA Free NBP2-81088-0.2mg

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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**NBP2-81088-0.2mg**

CD44 Antibody (Hermes-1) - Chimeric - 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	Hermes-1
Preservative	0.02% Proclin 300
Isotype	IgG Kappa
Purity	Protein A purified
Buffer	PBS

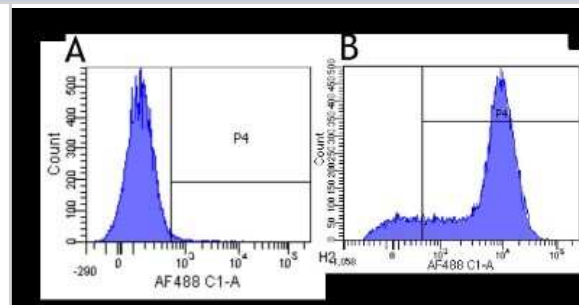
Product Description	
Description	Novus Biologicals Rabbit CD44 Antibody (Hermes-1) - Chimeric - Azide and BSA Free (NBP2-81088) is a recombinant monoclonal antibody validated for use in IHC, WB, ELISA, Flow, ICC/IF and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	960
Gene Symbol	CD44
Species	Human, Mouse, Rat, Bovine, Goat, Primate, Rabbit, Sheep
Specificity/Sensitivity	This antibody is specific for CD44 (gp90 epitope cluster I), which is selectively expressed on normal or transformed lymphoid cells that are able to recognize and bind to high endothelial venules (specialized vessels that mediate lymphocyte exit from the blood into lymphoid organs). Although this antibody was raised against human CD44, it cross-reacts with murine, rat, rabbit, primate, sheep, bovine and goat CD44.
Immunogen	This antibody was produced by immunizing a Fischer rat with human tonsil lymphocytes ( $10^7$ cells intraperitoneally in Freund's complete adjuvant). A boost was given 2 weeks later (intravascularly in saline).

Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Block/Neutralize
Recommended Dilutions	Western Blot, Flow Cytometry, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Block/Neutralize
Application Notes	This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG2a format, for improved compatibility with existing reagents, assays and techniques. This antibody binds CD44, so can be used to label CD44+ cells in flow cytometry analysis. As CD44 molecules are used to bind to high endothelial venules (HEV) at the site of lymphocyte entry to lymphoid organs, this antibody can be used to specifically stain HEV-binding cell lines (Jalkanen, 1986). In addition, this antibody blocks the adhesion of the haematopoietic progenitor cell line KG1 to hyaluronic acid (Bendall, 2003), but does not block lymphocyte binding to HEV (Picker, 1989). 7H9D6 partially blocks the binding of this antibody.



## Images

Flow Cytometry: CD44 Antibody (Hermes-1) - Chimeric [NBP2-81088] - Flow-cytometry using anti-CD44 antibody (Hermes-1) [NBP2-81088]. Human activated T lymphocytes were stained with an isotype control (NBP2-52638, panel A) or the rabbit-chimeric version of Hermes-1 (NBP2-81088, panel B) at a concentration of 1 ug/ml for 30 mins at RT. After washing, bound antibody was detected using a AF488 conjugated donkey anti-rabbit antibody and cells analysed on a FACSCanto flow-cytometer.





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### **Products Related to NBP2-81088-0.2mg**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP1-84578PEP	CD44 Recombinant Protein Antigen

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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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