

## Technical Data Sheet

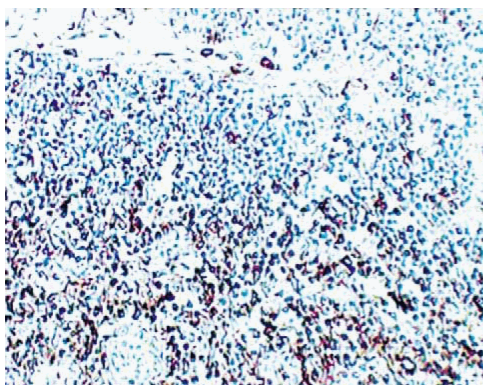
## Purified Mouse Anti-Human CD44

## Product Information

<b>Material Number:</b>	<b>550392</b>
<b>Alternate Name:</b>	Phagocytic glycoprotein 1; Pgp-1; H-CAM; Hermes; ECMR III; HUTCH-1
<b>Size:</b>	1.0 ml
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	G44-26 (also known as C26)
<b>Isotype:</b>	Mouse IgG2b, κ
<b>Reactivity:</b>	QC Testing: Human
<b>Workshop:</b>	VI A092
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, goat serum, and ≤0.09% sodium azide.

## Description

The G44-26 monoclonal antibody specifically binds to the 80-95 kDa, glycosylated type I transmembrane protein, also known as phagocytic glycoprotein-1 (Pgp-1). CD44 is the receptor for hyaluronic acid. CD44 is expressed on leucocytes, erythrocytes, epithelial cells and weakly on platelets. CD44 is also called extracellular matrix receptor type III and has functional roles in cell migration, lymphocyte homing and adhesion during hematopoiesis and lymphocyte activation. This antibody is suitable for staining formalin-fixed, paraffin-embedded tissue sections using citrate buffer pretreatment. This antibody recognizes the epitope 1 of CD44 antigen according to the HLDA workshop studies.



*Immunohistochemical staining of CD44+ cells. Paraffin sections of normal human thymus were reacted with G44-26 antibody. Thymocytes can be identified by the brown labeling of their cell surface membranes. Amplification 20X.*

## Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Application Notes

## Application

Flow cytometry	Routinely Tested
Immunohistochemistry-frozen	Tested During Development
Immunohistochemistry-formalin (antigen retrieval required)	Tested During Development

## Recommended Assay Procedure:

**Immunohistochemistry:** The G44-26 antibody is recommended to test for immunohistochemical staining of acetone-fixed frozen sections and formalin-fixed paraffin sections with citrate pre-treatment. Tissues tested were human spleen, thymus and tonsil. The antibody stains thymocytes, leukocytes, erythrocytes and weakly on platelets. The isotype control recommended for use with this antibody is purified mouse IgG2b (Cat. No. 557351). For optimal indirect immunohistochemical staining, the G44-26 antibody should be titrated (1:10 to 1:50 dilution) and visualized via a three-step staining procedure in combination with polyclonal, biotin conjugated anti-mouse Igs (multiple adsorbed) (Cat. No. 550337) as the secondary antibody and Streptavidin-HRP (Cat. No. 550946) together with the DAB detection system (Cat. No. 550880). A detailed protocol of the immunohistochemical procedure is available on our website at [www.bdbiosciences.com/support/resources](http://www.bdbiosciences.com/support/resources).

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## Suggested Companion Products

Catalog Number	Name	Size	Clone
550337	Biotin Goat Anti-Mouse Ig (Multiple Adsorption)	1.0 ml	Polyclonal
550946	Streptavidin HRP	50 ml	(none)
550880	DAB Substrate Kit	500 tests	(none)
559148	Antibody Diluent for IHC	125 ml	(none)
557351	Purified Mouse IgG2b, $\kappa$ Isotype Control	0.5 mg	MPC-11
550524	Retrievagen A (pH 6.0)	1000 ml	(none)

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. This antibody has been developed for the immunohistochemistry application. However, a routine immunohistochemistry test is not performed on every lot. Researchers are encouraged to titrate the reagent for optimal performance.
5. An isotype control should be used at the same concentration as the antibody of interest.
6. Please refer to [www.bdbiosciences.com/pharmlingen/protocols](http://www.bdbiosciences.com/pharmlingen/protocols) for technical protocols.

## References

Galandrini R, Galluzzo E, Albi N, Grossi CE, Velardi A. Hyaluronate is costimulatory for human T cell effector functions and binds to CD44 on activated T cells. *J Immunol.* 1994; 153(1):21-31. (Biology)

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