



## Monoclonal Antibody to **Anti-Human CD44 (HCAM)**

### *Technical Data Sheet*

#### Reagent Category

Monoclonal primary antibodies to  
CD44 (HCAM)

#### Antibody Formats Supplied

- 5 ml of anti CD44 (HCAM), Ready-To-Use
- 0.2 ml of anti CD44 (HCAM), Concentrate

PRODUCT# IMI15961E (Ready-To-Use)

PRODUCT# IMI15952E (Concentrate)

**SOURCE:** Mouse ascites

**IMMUNOGEN:** Splenocytes

**IMMUNOGLOBULIN ISOTYPE:** IgG1

**CLONE:** DF1485

**POSITIVE CONTROL TISSUE:** TONSIL

**STAINING PATTERN:** Membrane staining

#### **REACTIVITY**

CD44 also known as phagocytic glycoprotein-1 (Pgp-1) or HCAM has cell to cell and cell matrix adhesion properties and is linked to cytoskeleton. It is found on a variety of cells such as B cells, T cells (especially with increased expression on memory T cells), monocytes granulocytes and erythrocytes. It is also found on epithelial cells, central nervous white matter, fibroblasts, skeletal muscle and a wide variety of tumors. It has been suggested that transition from non-metastatic to metastatic tumor cell is a property closely linked with changes in CD44 variants. This antibody is suitable for use on routinely fixed paraffin embedded or frozen sections or cell smears.

#### **Antibody FORMAT, DILUTIONS and INCUBATIONS**

Monoclonal mouse anti CD44 (HCAM) antibody is provided in phosphate buffered saline pH 7.4 containing bovine serum albumin (BSA) and 0.1 % sodium azide. This antibody is available in:

- 5 ml of Ready-to-Use; **Do not dilute.** Incubate for 1 hour. This antibody best stains when formalin fixed paraffin embedded sections are retrieved.

*For Background-Free and easy retrieval, Innovex Uni-Trieve (60°-70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up a water bath to 60°-70°C and fill a slide holding container with Uni-Trieve solution. Place slides in a slide rack and immerse slides in a vessel or a coplin jar containing Uni-Trieve solution, bring the Uni-Trieve solution and slides to 60°-70°C and let slides incubate at 60°-70°C for 30 minutes. Rinse slides with 2 quick changes of water; No cooling period is required. Proceed with immunostaining.*

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□ **0.2 ml of concentrate: For 1 hour incubation dilute at 1:40 to 1:80. The ultimate working dilution and incubation time must be determined by the end user for the incubation time, the secondary reagents and tissue employed. This antibody best stains when formalin fixed paraffin embedded sections are retrieved.**

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*The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT (2-step) detection systems. For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific detection system employed.*

## **APPLICATIONS**

This antibody is intended for use in immunolocalization of CD44 antigens in human tissue by a variety of immunoassays such as Immunochemistry, ELISA, Immunoblotting, dot blotting and for use in functional assays in adhesion research. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of quantitative localization of CD44 antigens. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

## **SPECIES REACTIVITY**

This antibody reactivity with human tissue has been substantiated, other species reactivity may be characterized by the end user.

## **STORAGE CONDITIONS**

Store in refrigerator at 2-8°C through expiration date noted on the vial.

## **IMPORTANT NOTE:**

**The interpretation of test results is the sole responsibility of the end user.**

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