

# Datasheet



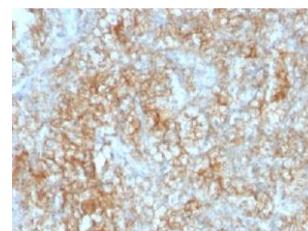
Mouse mAb to **CD147**  
Clone **CB-43**  
Isotype **IgM-κ**

## Source

A BALB/c mouse was immunized with human native leucocytes.  
Fusion partner: NS-0.

## Specifications

CD147 is a transmembrane glycoprotein of the immunoglobulin superfamily. It is expressed more intensely on thymocytes than on mature peripheral blood T cells. CD147 is important in spermatogenesis, embryo implantation, neural network formation, and tumor progression. CD147 is involved in the regulation of matrix remodeling at the epidermal-dermal interface. It stimulates the production of interstitial collagenase, gelatinase A, stromelysin-1 and various metalloproteinases (MMPs) by fibroblasts. These enzymes, which are typically increased during tissue degradation and wound healing, are important factors in cancer invasion and metastasis.



**Figure 1:** Human kidney cancer stained for CD147 (frozen).

## Species reactivity

Positive: human.

## Applications

Demonstration of CD147. Classification of malignant cells.

Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections
+	+	+	-

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium azide.

Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30-60 minutes at RT; for staining of formalin-fixed tissues no suitable antigen retrieval method is known to date).

## Positive control

HSB2 cells. renal cell, ovarian carcinoma or melanoma.

## References

- Kirsch AH et. al. *Tissue Antigens* **50(2)**: 147-52 (1997).