# Datasheet

Mouse mAb to **CD44**
Clone **156-3C11**
Isotype **IgG2a-κ**

## Source

A BALB/c mouse was immunized with stimulated human leucocytes.
Fusion partner: NS-1.

## Specifications

156-3C11 reacts with CD44, a type 1 transmembrane glycoprotein providing cell-cell and cell-matrix adhesion while linked to the cytoskeleton. It is involved in haematopoiesis, lymphocyte homing and activation, and tumor metastasis. It binds to fibrin, hyaluronate and other matrix proteins. On tumors CD44H is highly expressed, suggesting an important role in progression for this isoform. CD44 also forms the protein backbone of the human erythrocyte Lutheran antigen system. The epitope of 156-3C11 is resistant to (chemo)trypsin digestion and selectively interferes with lymphocyte binding to lymph node, mucosal and synovial endothelium. 156-3C11 was clustered at the V$^{th}$ HLDA Workshop.

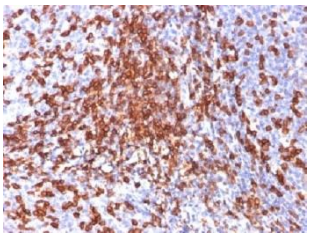

**Figure 1:** Human tonsil stained with 156-3C11 (paraffin).

## Species reactivity

Positive: African green monkey, Baboon, Human.

## Applications

CD44 immunostaining is commonly used for the discrimination of urothelial transitional cell carcinoma in-situ from non-neoplastic changes in the urothelium.

| Flow cytometry | Frozen sections | Functional studies | Immunofluorescence | Paraffin sections | Western blot |
|---|---|---|---|---|---|
| + | + | + | + | Citrate | + |

## 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.

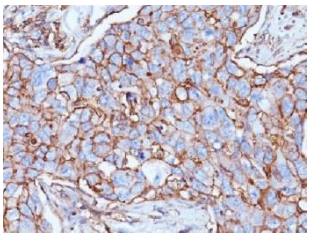

**Figure 2:** Human breast cancer stained with 156-3C11 (paraffin).

## Dilution advice

- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Functional studies (0,02-2,0 µg/ml without azide).
- Immunoblotting (1-2 µg/ml).
- Immunofluorescence ( 1-2 µg/ml).
- Immunohistology (formalin-fixed: 1-2 µg/ml for 30 min at RT; requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min, followed by cooling at RT for 20 minutes).

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## Positive control

HeLa cells or paracortex in tonsil or lymph node.

## References


- Schlossman SF, et. al. Leucocyte Typing V, p1713-1719, Oxford Univ. Press (1995).