Datasheet

Mouse mAb to **Human IgA Secretory Component**
Clone **SC-05**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with affinity purified human secretory component.
Fusion partner: P3-X63-Ag8.653.

Specifications

SC-05 reacts with a reduction resistant epitope on 80 kDa human secretory component (both free and bound to SIgA). Secretory component is differentially expressed in epithelium, thus SC-05 can identify subpopulations of epithelial cells and epithelial differentiation. Secretory component negative cell lines are not stained with SC-05.

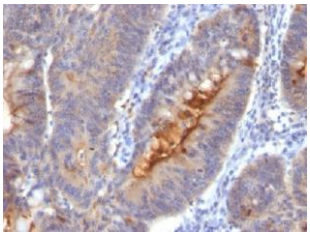

Figure 1: Human colon cancer stained with SC-05 (paraffin)

Species reactivity

Positive: human, rat.

Applications

SC-05 is useful for studying the distribution and level of both free and bound secretory component and to identify epithelial differentiation in relevant tissues.

ELISA	Flow cytometry	Frozen sections	Immuno-precipitation	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.

Dilution advice

- ELISA (solid phase: 0,1-100 µg/ml; tracer: 0,001-100 µg/ml for 30 min at RT).
- Flow cytometry (0.5-1.0 µg/million cells in 0.1 ml).
- Immunoblotting (1-2 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; staining of formalin-fixed tissues is served by boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes).
- Immunoprecipitation (1-2 µg per 100-500 µg of total cell lysate protein/1 ml of anti-mouse coated Sepharose-4B suspension).

Positive control

Stomach, lung, or breast tumor.

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References

- Kvale, D. et al, *Int J Cancer* **42(4)**: 638-641 (1988).
- Bartek, J. et al, *Histochem* **91(3)**: 235-244 (1989).
- Bartek, J. et al, *Histochem J* **22(10)**: 537-534 (1990).