

# Datasheet



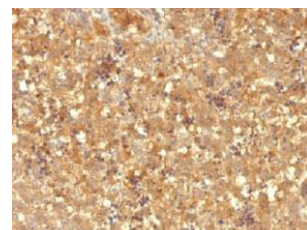
Mouse mAb to **Alpha fetoprotein (AFP)**  
Clone **MBS-12**  
Isotype **IgG1-κ**

## Source

A BALB/c mouse was immunized with alpha fetoprotein isolated from serum of hepatoma patients.  
Fusion partner: NS1.

## Specifications

MBS-12 specifically detects AFP. This protein is one of the major serum proteins in the early life of mammals and through to be fetal counterpart of albumin. AFP production is reactivated in the adult during liver regeneration and hepatocarcinogenesis, though in some individuals it persists into adulthood naturally. It is positive on all yolk sac tumors, on some other germ cell tumors and on hepatocellular carcinomas.



**Figure 1:** Fetal liver stained with MBS-12 (paraffin)

## Species reactivity

Positive: human.

## Applications

MBS-12 is excellent for IHC. In paraffin sections a citrate antigen retrieval step is required. It can also be used in flow cytometry and ELISA.

| ELISA | Flow cytometry | Frozen sections | Immunofluorescence | Paraffin sections |
|-------|----------------|-----------------|--------------------|-------------------|
| +     | +              | +               | +                  | 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).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (formalin-fixed: 1-2 µg/ml for 30 min at RT; staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6,0, for 10-20 min followed by cooling at RT for 20 minutes).

## Positive control

Hep-G2 cells, fetal liver or hepatocellular carcinoma.

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## References

- Stefanova, I. et al, *J. Immunol. Methods.* **111**: 67-73 (1988).
- Lafuste, P, et al, *Placenta* **23**: 600-612 (2002).