

# Datasheet



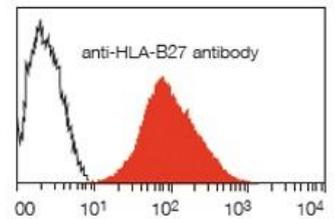
Mouse mAb to **MHC I B27**  
Clone **EP-4**  
Isotype **IgM-κ**

## Source

A BALB/c mouse was immunized with lymphocytes from an HLA-B27 patient.  
Fusion partner: NS-1.

## Specifications

EP-4 recognizes the HLA-B27 cell surface antigen on human cells. HLA-B27 has been found to be highly associated (60%) with ankylosing spondylitis (Bekhterev's disease, Marie-Strümpell disease or "bamboo spine"). While rheumatoid factor tests will be negative, testing for the presence of HLA-B27 in a patient can confirm the diagnosis of ankylosing spondylitis. Also postgonococcal arthritis and acute anterior uveitis are associated with HLA-B27.



**Figure 1:** Human PBL stained for HLA-B27 (FACS)

## Species reactivity

Positive: human.

## Applications

EP-4 is excellent for demonstration of HLA- B27.

Frozen sections	Flow cytometry	Immunofluorescence
+	+	+

## 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 0.1ml).
- Immunofluorescence (0.5-1 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

## Positive control

Human peripheral blood lymphocytes, tonsil or lymph node.

## References

- Hansen JA et al. *Hematol Oncol Clin North Am*, **4(3)**: 507-515 (1990).
- El-Shabrawi, Y. et al. *Ophthalmology* **113**: 695-700 (2006).
- Kellner H, *Clin Investig.* **72(4)**: 321-8 (1994).