

Technical Data Sheet

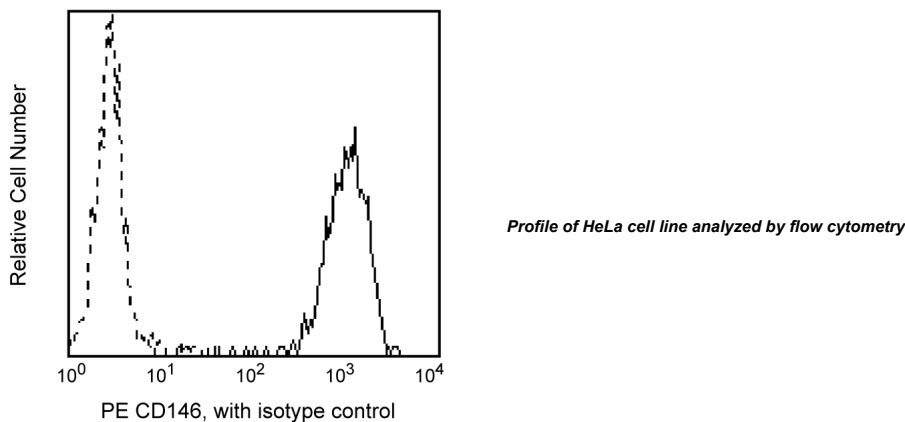
PE Mouse Anti-Human CD146

Product Information

| | |
|------------------|---|
| Material Number: | 550315 |
| Size: | 100 tests |
| Vol. per Test: | 20 µl |
| Clone: | P1H12 |
| Isotype: | Mouse IgG1, κ |
| Reactivity: | QC Testing: Human |
| Workshop: | NA |
| Storage Buffer: | Aqueous buffered solution containing BSA and ≤0.09% sodium azide. |

Description

Reacts with a 118 kDa transmembrane glycoprotein also known as MCAM, MUC18, MeI-CAM. CD146 is a member of the immunoglobulin superfamily and is expressed on endothelial cells, melanoma cells, smooth muscle, intermediate trophoblasts and has been reported as being present on a subpopulation of activated T cells. P1H12 monoclonal antibody has been reported to block endothelial cell adhesion and has been observed very early in embryogenesis. It can be useful in the study of embryologic vasculogenesis. This antibody is suitable for immunohistochemical staining of acetone-fixed frozen tissue sections, immunoprecipitation and ELISA.



Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed. Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

| | |
|----------------|------------------|
| Flow cytometry | Routinely Tested |
|----------------|------------------|

Suggested Companion Products

| Catalog Number | Name | Size | Clone |
|----------------|----------------------------------|-----------|---------|
| 555749 | PE Mouse IgG1, κ Isotype Control | 100 tests | MOPC-21 |

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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1 X 10⁶ cells in a 100-μl experimental sample (a test).
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/pharmingen/colors.
5. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

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Sers C, Kirsch K, Rothbacher U, Riethmüller G, Johnson JP. Genomic organization of the melanoma-associated glycoprotein MUC18: implications for the evolution of the immunoglobulin domains. *Proc Natl Acad Sci U S A*. 1993; 90(18):8514-8518.(Biology)

Shih IM. The role of CD146 (Mel-CAM) in biology and pathology. *J Pathol*. 1999; 189(1):4-11.(Biology)

Shih IM, Elder DE, Hsu MY, Herlyn M. Regulation of Mel-CAM/MUC18 expression on melanocytes of different stages of tumor progression by normal keratinocytes. *Am J Pathol*. 1994; 145(4):837-845.(Biology)