

## TECHNICAL DATA SHEET

### CyFlow™ CD26 FITC Anti-Hu; Clone BA5b

**REF** BE480793

**For Research Use Only.**

**Not for use in diagnostic or therapeutic procedures.**

### Specifications

<b>Antigen</b>	CD26
<b>Alternative Names</b>	ADABP, ADCP2, CD26, DPPIV, TP103
<b>Clone</b>	BA5b
<b>Clonality</b>	monoclonal
<b>Format</b>	FITC
<b>Host / Isotype</b>	Mouse / IgG2a
<b>Species Reactivity</b>	Human
<b>Negative Species Reactivity</b>	—
<b>Quantity</b>	100 tests
<b>Immunogen</b>	A human T cell clone

### Specificity

The mouse monoclonal antibody BA5b recognizes CD26, a 110 kDa type II membrane glycoprotein, which is a peptidase expressed on mature thymocytes, T cells (especially activated), B cells, NK cells and macrophages.

#### Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)

## Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 20 µl reagent / 100 µl of whole blood or 10<sup>6</sup> cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.

Other usages may be determined from the scientific literature.

## Storage Buffer

The reagent is provided in stabilizing phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

## Storage and Stability

<b>Storage</b>	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
<b>Stability</b>	Do not use after expiration date stamped on vial label.

## Background Information

CD26 (DPP-IV; dipeptidyl peptidase IV) is a homodimeric cell surface serine peptidase that degrades IFN-γ-induced cytokines, acts as a T cell costimulatory molecule, and participates in multiple immunopathological roles in leukocyte homing and inflammation. Alterations in its peptidase activity are characteristic of malignant transformation. The enzymatic activity increases dramatically with tumor grade and severity. CD26 is expressed in various blood cell types, but also e.g. in cells that are histogenetically related to activated fibroblasts. Alterations in CD26 density have been reported on circulating monocytes and CD4+ T cells during rheumatoid arthritis and systemic lupus erythematosus.

## References

- Doussis IA, Gatter KC, Mason DY: CD68 reactivity of non-macrophage derived tumours in cytological specimens. *J Clin Pathol.* 1993 Apr; 46(4):334-6. < PMID: 7684403 >
- Kishimoto T, Goyert S, Kikutani H, Mason D, Miyasaka M, Moretta L, Ohno T, Okumura K, Shaw S, Springer TA, Sugamura K, Sugawara H, von dem Borne AEGK, Zola H (Eds): *Leucocyte Typing VI.* Garland Publishing Inc, New York. 1997; 1-1342. < NLM ID: 9712219 >
- Ellingsen T, Hornung N, Møller BK, Hjelm-Poulsen J, Stengaard-Pedersen K: In active chronic rheumatoid arthritis, dipeptidyl peptidase IV density is increased on monocytes and CD4(+) T lymphocytes. *Scand J Immunol.* 2007 Oct; 66(4):451-7. < PMID: 17850590 >

---

### Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)

- Stremenova J, Krepela E, Mares V, Trim J, Dbaly V, Marek J, Vanickova Z, Lisa V, Yea C, Sedo A: Expression and enzymatic activity of dipeptidyl peptidase-IV in human astrocytic tumours are associated with tumour grade. *Int J Oncol.* 2007 Oct; 31(4):785-92. < PMID: 17786309 >
- Kotacková L, Baláziová E, Sedo A: Expression pattern of dipeptidyl peptidase IV activity and/or structure homologues in cancer. *Folia Biol (Praha).* 2009; 55(3):77-84. < PMID: 19545486 >
- Wong PT, Wong CK, Tam LS, Li EK, Chen DP, Lam CW: Decreased expression of T lymphocyte co-stimulatory molecule CD26 on invariant natural killer T cells in systemic lupus erythematosus. *Immunol Invest.* 2009; 38(5):350-64. < PMID: 19811413 >
- Dohi O, Ohtani H, Hatori M, Sato E, Hosaka M, Nagura H, Itoi E, Kokubun S: Histogenesis-specific expression of fibroblast activation protein and dipeptidylpeptidase-IV in human bone and soft tissue tumours. *Histopathology.* 2009 Oct; 55(4):432-40. < PMID: 19817894 >

---

The Safety Data Sheet for this product is available at [www.sysmex-partec.com/services](http://www.sysmex-partec.com/services).

---

---

**Contact Information:**

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany  
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: [info@sysmex-partec.com](mailto:info@sysmex-partec.com)