

TECHNICAL DATA SHEET

CyFlow™ CD26 Pacific Blue™ Anti-Hu; Clone BA5b

REF AL763968

**For Research Use Only.
Not for use in diagnostic or therapeutic procedures.**

Specifications

Antigen	CD26
Alternative Names	ADABP, ADCP2, CD26, DPPIV, TP103
Clone	BA5b
Clonality	monoclonal
Format	Pacific Blue™
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	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.

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Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 4 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension. The content of a vial (0.4 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

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	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 >

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- 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.

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