TECHNICAL DATA SHEET

CyFlow™ IgD PE

Anti-Hu; Clone IA6-2

REF **BK989461**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	IgD
Alternative Names	—
Clone	IA6-2
Clonality	monoclonal
Format	PE
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human
Negative Species Reactivity	—
Quantity	100 tests
Immunogen	Human IgD

Specificity

The mouse monoclonal antibody IA6-2 recognizes human immunoglobulin D (IgD).

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

Application

The reagent is designed for Flow Cytometry analysis of human blood cells. Recommended usage is 10 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (1 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

Immunoglobulin D (IgD) is expressed on the surface of naive mature B cells, thus later than IgM, and is coexpressed with it then. Triggered by antigen binding, it signals through the CD79 complex to activate the B cells. Expression of IgD is lost after the isotype switch. Soluble IgD is present in very small amounts in the serum. IgD can bind to basophils and mast cells to activate them in an IgE-independent way to participate in respiratory immune defense.

References

- Baier G, Baier-Bitterlich G, Looney DJ, Altman A: Immunogenic targeting of recombinant peptide vaccines to human antigen-presenting cells by chimeric anti-HLA-DR and anti-surface immunoglobulin D antibody Fab fragments in vitro. J Virol. 1995 Apr; 69(4):2357-65. < PMID: 7533857 >
- Pugh-Bernard AE, Silverman GJ, Cappione AJ, Villano ME, Ryan DH, Insel RA, Sanz I: Regulation of inherently autoreactive VH4-34 B cells in the maintenance of human B cell tolerance. J Clin Invest. 2001 Oct; 108(7):1061-70. < PMID: 11581307 >
- Ferrari S, Giliani S, Insalaco A, Al-Ghonaium A, Soresina AR, Loubser M, Avanzini MA, Marconi M, Badolato R, Ugazio AG, Levy Y, Catalan N, Durandy A, Tbakhi A, Notarangelo LD, Plebani A: Mutations of CD40 gene cause an autosomal recessive form of immunodeficiency with hyper IgM. Proc Natl Acad Sci USA. 2001 Oct 23; 98(22):12614-9. < PMID: 11675497 >

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

- Di Sabatino A1, Carsetti R, Rosado MM, Ciccocioppo R, Cazzola P, Morera R, Tinozzi FP, Tinozzi S, Corazza GR: Immunoglobulin M memory B cell decrease in inflammatory bowel disease. Eur Rev Med Pharmacol Sci. 2004 Sep-Oct; 8(5):199-203. < PMID: 15638230 >
- Chang NH, McKenzie T, Bonventi G, Landolt-Marticorena C, Fortin PR, Gladman D, Urowitz M, Wither JE: Expanded population of activated antigen-engaged cells within the naive B cell compartment of patients with systemic lupus erythematosus. J Immunol. 2008 Jan 15; 180(2):1276-84. < PMID: 18178868 >
- Degauque N, Ngono AE, Akl A, Lepetit M, Crochette R, Giral M, Lepourry J, Pallier A, Castagnet S, Dugast E, Guillot-Gueguen C, Jacq-Foucher M, Saulquin X, Cesbron A, Laplaud D, Nicot A, Brouard S, Soulillou JP: Characterization of antigen-specific B cells using nominal antigen-coated flow-beads. PLoS One. 2013 Dec 30; 8(12):e84273. < PMID: 24386360 >
- Bunch DO, McGregor JG, Khandoobhai NB, Aybar LT, Burkart ME, Hu Y, Hogan SL, Poulton CJ, Berg EA, Falk RJ, Nachman PH: Decreased CD5+ B cells in active ANCA vasculitis and relapse after rituximab. Clin J Am Soc Nephrol. 2013 Mar; 8(3):382-91. < PMID: 23293123 >

The Safety Data Sheet for this product is available at 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