

TECHNICAL DATA SHEET

CyFlow™ IgG1 Purified Mouse Isotype Control

REF AS224818

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

Specifications

Antigen	IgG1 Isotype Control
Alternative Names	—
Clone	PPV-06
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	n/a
Negative Species Reactivity	Human Mouse Rat Pig
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	< no data >

Specificity

This mouse IgG1 monoclonal antibody (clone PPV-06) reacts with undefined epitope on a plant pathogen.

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Application

The reagent is designed as an isotype control for Flow Cytometry analysis. To establish the amount of non-specific antibody binding, match the concentration of the correct isotype to the recommended working concentration of the antigen-specific antibody. If the background signal of the isotype control is too high (usually when working antibody concentrations are above 10 µg/ml of incubation mixture), change the experimental conditions to reduce the background.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in 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

The specificity of staining by monoclonal antibodies to target antigens should be verified by establishing the amount of non-specific antibody binding. Especially at higher concentration (more than 15 µg/ml) the antibody staining usually has consignable background. To this end a non-reactive immunoglobulin of the same isotype is included as a negative control for each specific monoclonal antibody used in a particular immunoassay. The monoclonal antibody PPV-06, generated against an undefined antigen, does not react specifically with rat and human samples, and hence all the background that could be observed when working with this antibody would be a result of general nonspecific interactions between an mouse IgG1 molecule and the respective sample under the particular conditions. This shall help the customer to set up the experimental conditions so that the nonspecific binding of any antibody is abolished.

References

- Beyersdorf N, Ding X, Blank G, Dennehy KM, Kerkau T, Hünig T: Protection from graft-versus-host disease with a novel B7 binding site-specific mouse anti-mouse CD28 monoclonal antibody. Blood. 2008 Nov 15; 112(10):4328-36. < PMID: 18780833 >
- Handke W, Oelschlegel R, Franke R, Krüger DH, Rang A: Hantaan virus triggers TLR3-dependent innate immune responses. J Immunol. 2009 Mar 1; 182(5):2849-58. < PMID: 19234180 >

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- Michaelis K, Wallbrecht K, Kerstan A, Beyersdorf N, Williams C, Kerkau T, Wang XJ, Hünig T, Schön MP: Modulating T cell functions does not alleviate chronic inflammatory skin lesions in K5.TGF beta 1 transgenic mice.. *Exp Dermatol*. 2010 May; 19(5):406-15. < PMID: 20100197 >
- Balogh A, Adori M, Török K, Matko J, László G: A closer look into the GL7 antigen: its spatio-temporally selective differential expression and localization in lymphoid cells and organs in human. *Immunol Lett*. 2010 May 4; 130(1-2):89-96. < PMID: 20005896 >
- Larsen MH, Bzorek M, Pass MB, Larsen LG, Nielsen MW, Svendsen SG, Lindhard A, Hviid TV: Human leukocyte antigen-G in the male reproductive system and in seminal plasma. *Mol Hum Reprod*. 2011 Dec; 17(12):727-38. < PMID: 21813635 >
- Beyersdorf N, Werner S, Wolf N, Herrmann T, Kerkau T: Characterization of a new mouse model for peripheral T cell lymphoma in humans. *PLoS One*. 2011; 6(12):e28546. < PMID: 22163033 >
- Correia MP, Costa AV, Uhrberg M, Cardoso EM, Arosa FA: IL-15 induces CD8+ T cells to acquire functional NK receptors capable of modulating cytotoxicity and cytokine secretion. *Immunobiology*. 2011 May; 216(5):604-12. < PMID: 20956026 >
- Almeida CR, Vasconcelos DP, Gonçalves RM, Barbosa MA: Enhanced mesenchymal stromal cell recruitment via natural killer cells by incorporation of inflammatory signals in biomaterials. *J R Soc Interface*. 2012 Feb 7; 9(67):261-71. < PMID: 21752807 >
- Svendsen SG, Hantash BM, Zhao L, Faber C, Bzorek M, Nissen MH, Hviid TV: The expression and functional activity of membrane-bound human leukocyte antigen-G1 are influenced by the 3'-untranslated region. *Hum Immunol*. 2013 Jul; 74(7):818-27. < PMID: 23583363 >
- Szittner Z, Papp K, Sándor N, Bajtay Z, Prechl J: Application of fluorescent monocytes for probing immune complexes on antigen microarrays. *PLoS One*. 2013 Sep 5; 8(9):e72401. < PMID: 24039758 >
- van Bergenhenegouwen J, Kraneveld AD, Rutten L, Kettelarij N, Garssen J, Vos AP: Extracellular vesicles modulate host-microbe responses by altering TLR2 activity and phagocytosis. *PLoS One*. 2014 Feb 20; 9(2):e89121. < PMID: 24586537 >
- Kruse V, Hamann C, Monecke S, Cyganek L, Elsner L, Hübscher D, Walter L, Streckfuss-Bömeke K, Guan K, Dressel R: Human Induced Pluripotent Stem Cells Are Targets for Allogeneic and Autologous Natural Killer (NK) Cells and Killing Is Partly Mediated by the Activating NK Receptor DNAM-1.. *PLoS One*. 2015 May 7; 10(5):e0125544. < PMID: 25950680 >
- Mehling M, Burgener AV, Brinkmann V, Bantug GR, Dimeloe S, Hoenger G, Kappos L, Hess C: Tissue Distribution Dynamics of Human NK Cells Inferred from Peripheral Blood Depletion Kinetics after

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Sphingosine-1-Phosphate Receptor Blockade.. Scand J Immunol. 2015 Nov; 82(5):460-6.
< PMID: 26285786 >

- Escate R, Padro T, Badimon L: LDL accelerates monocyte to macrophage differentiation: Effects on adhesion and anoikis. Atherosclerosis. 2016 Mar; 246:177-86. < PMID: 26800307 >
- Schmidt T, Willenborg S, Hünig T, Deeg CA, Sonderstrup G, Hertl M, Eming R: Induction of T regulatory cells by the superagonistic anti-CD28 antibody D665 leads to decreased pathogenic IgG autoantibodies against desmoglein 3 in a HLA-transgenic mouse model of pemphigus vulgaris.. Exp Dermatol. 2016 Apr; 25(4):293-8. < PMID: 26661498 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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