SPECIFICITY
The CD155 molecule (Poliovirus Receptor; PVR) is a transmembrane glycoprotein of 80 – 90 kDa, with 3 extracellular immunoglobulin-related domains (1). Four different isotypes (α to δ) exist, originated from alternate splicing of the CD155 mRNA. CD155γ and γ are secreted, whereas CD155α and δ are membrane-anchored and serve as receptor for the poliovirus, via the V-region of the N-terminus (2, 3). CD155 is expressed on monocytes, a T-cell subset and neurons of the central nervous system (1). CD155 is also expressed on some CD34+ progenitor cells, particularly on progenitors committed in myeloid differentiation. In monocytes, a physical interaction of CD155 with CD44 has been shown, suggesting a role in the regulation of CD44 ligand binding (4).

The monoclonal antibody (mAb) PV404.19, obtained from mice immunized with human bladder carcinoma 5637 cell line, specifically immunoprecipitates a protein of 80 – 90 kDa from Ficoll-isolated peripheral blood mononuclear cells, and blocks the binding of poliovirus (1). The PV404.19 mAb has been assigned to the CD155 cluster of differentiation at the 6th International Workshop on Human Leucocyte Differentiation Antigens in Kobe, Japan (1996) (1).

APPLICATION
Studies of CD155 positive cells. Flow cytometry.

STATEMENT OF WARNINGS
1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use antibody beyond the expiration date on the label.
4. Avoid microbial contamination of reagents or incorrect results might occur.
5. Use good laboratory practices when handling this reagent.

STORAGE CONDITIONS AND STABILITY
This freeze-dried form may be stored at 2 – 8°C until the expiration date stated on the vial label. No preservative has been added.

REAGENT PREPARATION
Depending of usage, reconstitute with 1 mL of distilled water, with or without 0.1% sodium azide (w/v). The reconstituted form including 0.1% sodium azide may be stored up to one month at 2 – 8°C. The reconstituted form without sodium azide can be stored at –20°C or less, until the expiration date stated on the vial label. In this case, aliquotting is recommended to avoid multiple freezing / thawing cycles.

PROCEDURE
For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

SELECTED RESEARCH REFERENCES

PRODUCT AVAILABILITY
Monoclonal Antibody CD155
PN IM2755 – Purified – Freeze-dried – 0.2 mg

For additional information in the USA, call 800-526-7694.
Outside the USA, contact your local Beckman Coulter representative.

www.beckmancoulter.com

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