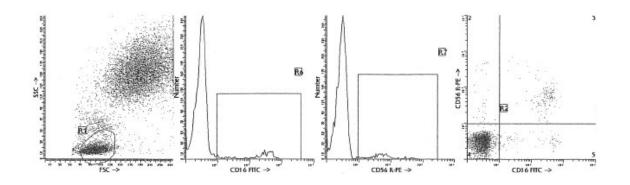


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PRODUCT INFORMATION SHEET Monoclonal antibodies detecting human antigens										
CD16	FITC	CD56	R-PE	RUO	REF	IQP-221FR	50 tests			
RUO Fo	or Researc	h Use Only								
	Des	cription								
	all r anti mec una CD5 sub MH( app	esting NK c gens and m diates signa ble to induc 56 is applied population of C restriction ears to be i	ells. It is a nediates pl I transduc any sigr I for the do of lymphod . Target c	also found on in nagocytosis and tion while the ( nal or functiona etection of NK cytes, which an ells may includ	nacrophages and d antibody-deper GPI-linked form of l effect. cells in immune e capable of per	on neutrophils binds monitoring. NK cells forming their cytoto: I cells or transforme	IgG complexed to xicity. On NK cells it to ligands but is form a distinct kic activity without			
-	CD:									
Clone	B-E									
Isotype		Murine IgG2a								
Specificity		Clone B-E16 produces mouse IgG2a immunoglobulins specific for a 50-70 kD antigen which is associated with the IgG FceRI on NK cells, neutrophils, granulocytes and monocytes.								
	CD!	56			6					
Clone	MO	C-1			ע					
Isotype	Mur	ine IgG1								
Specificity	cell add sho exp	Certain subtypes of T cell lymphomas may express the CD56 antigen. These include peripheral T cell lymphoma (NK cell lymphoma: CD56+, EBV+) and T lymphocytic lymphoma (CD56+/-). In addition, the neoplastic counterpart of the NK cell can be characterized as T gamma lymphocytosis, showing expression of a number of antigens, e.g. CD56+, CD7+, CD16+, CD2+/- and CD8+/ Co-expression of CD56 and CD138 (monoclonal antibody B-A38) is an indication of plasma cell malignancy in multiple myeloma, although it does not occur in all samples.								
Usage	for t of d	flow cytome	tric analys le combina	is using 10 μl/1	.0 <sup>6</sup> leukocytes fo	r singles and 20 $\mu$ l/1	ning of human tissue 0 <sup>6</sup> leukocytes in case uld titrate the reagen			

Representative Data IQP-221FR (CD16/CD56) was analyzed by flow cytometry using a blood sample from a healthy volunteer. Direct staining was performed by adding 20 µl of this dual to 100 µl blood sample.



## Immunofluorescence staining and lysing protocol

Flow cytometry method for use with dual and triple combinations

1. Add 100  $\mu$ I of EDTA-treated blood (i.e. approx. 10<sup>6</sup> leukocytes) to a 5 ml reagent tube. The content of one tube is sufficient to perform one test.

For combinations with anti-kappa and/or anti-lambda Ig see application note below.

- 2. Add to each tube 20  $\mu l$  of labeled monoclonal antibody combination\*.
- Vortex the tube to ensure thorough mixing of antibody and cells.
  Incubate the tube for 15 minutes at room temperature in the dark.
- Add 100 µl of IQ Lyse (IQP-199 ready-to-use) and mix immediately.
- Incubate for 10 minutes at room temperature in the dark.
- 7. Add 2 ml of demineralized water and incubate for 10 minutes in the dark.
- Centrifuge the labeled cell suspension for 2 minutes at 1000 x g.
- 9. Remove the supernatant and resuspend the cells in 200  $\mu$ l of PBS\*\*.
- 10. Analyze by flow cytometry within four hours (alternatively, the cells may be fixed by 0.05% of formaline in buffered saline for analysis the next day. Some antigens are readily destroyed upon fixation and this should be taken into account when using this alternative).

\* Appropriate mouse Ig isotype control samples can be included in any labeling study \*\* PBS: Phosphate Buffered Saline, pH 7.2

### Application note for anti-kappa and/or anti-lambda Ig combinations

Add 2 ml of PBS containing 0.001% (v/v) Heparin (**prewarmed to 37 °C**) to the cell suspension Vortex, centrifuge (2 min at 300x g) and discard the supernatant Repeat this step twice

Resuspend the pelleted blood cells in 100 µl PBS containing 0.001% (v/v) Heparin

# ▲ <mark>● 《 本 日</mark> Handling and Storage

Antibodies are supplied either as 100 tests per vial (1 ml) for singles or 50 tests per vial (1 ml) for dual and triple combinations. They are supplied in 0.01 M sodium phosphate, 0.15 M NaCl; pH 7.3, 0.2% BSA, 0.09% sodiumazide (NaN<sub>3</sub>). Store the vials at 2-8 °C. Monoclonal antibodies should be protected from prolonged exposure to light. Reagents are stable for the period shown on the vial label when stored properly.

**Warranty** Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

## Characterization

To ensure consistently high-quality reagents, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reagent. Representative flow cytometric data is included in this data sheet.

**Warning** All products contain sodiumazide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

## Explanation of used symbols

Explanation	asea symbols
	Consult instructions for use
REF	Catalogue number
V	Sufficient for
IVD	In Vitro Diagnostic medical device
$\overline{\mathbb{A}}$	Caution, consult accompanying document
*	Keep away from (sun)light
ক্ষ	Biological risks
*	Temperature limitation (°C)
RUO	For Research Use Only
LOT	Batch code
2	Use by yyyy-mm-dd
	Manufacturer
EC REP	Authorized Representative in the European Community
CE	Conformité Européenne (European Conformity)

		Label - tandem	Ex -max (nm)	Em -max (nm)
Р	PURE	purified material	-	-
F	FITC	FITC	488	519
R	R-PE	PE	488, 532	578
С	CyQ	PE-Cy5.18	488, 532	667
А	APC		595, 633, 635, 647	660
PC	PerCP		488, 532	678
PCC	PerCP-Cy5.5		488, 532	695

