

## PRODUCT INFORMATION SHEET

### Monoclonal antibodies detecting human antigens

#### CD209

PURE	<span style="border: 1px solid black; padding: 2px;">RUO</span>	<span style="border: 1px solid black; padding: 2px;">REF</span>	IQP-650P	▽ 100 test
R-PE	<span style="border: 1px solid black; padding: 2px;">RUO</span>	<span style="border: 1px solid black; padding: 2px;">REF</span>	IQP-650R	▽ 100 test
APC	<span style="border: 1px solid black; padding: 2px;">RUO</span>	<span style="border: 1px solid black; padding: 2px;">REF</span>	IQP-650A	▽ 100 test

RUO **For Research Use Only**



#### Description

**Clone** UW60.1

**Isotype** Murine IgG1

**Specificity** The mouse monoclonal antibody UW60.1 recognizes human CD209 (DC-SIGN), a 44 kDa transmembrane receptor expressed on the surface of dendritic cells and macrophages.

**Species** Human

**Immunogen** CD209-His-tagged fusion protein

**Summary** CD209, also known as DC-SIGN (dendritic cell-specific ICAM-3-grabbing nonintegrin) is a transmembrane receptor expressed on the surface of dendritic cells and macrophages, which recognizes numerous pathogens ranging from parasites to viruses. Its N-terminal domain is transmembrane, whereas a tandem-repeat neck domain and the C terminal C-type lectin carbohydrate recognition domain have dual function as a pathogen recognition receptor and a cell adhesion receptor. The neck region is responsible for homo-oligomerization which allows the receptor to bind multivalent ligands with high avidity. A ligand of CD209 is also CD50 (ICAM-3).

**Applications** FC, IHC, ICC. Determining optimal working dilutions by titration test.

#### Limitations

1. Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation than those with dyes like FITC and CyQ. When populations overlap, the percentage of positive cells using a selected marker can be affected by the choice of fluorescent label.
2. Use of monoclonal antibodies in patient treatment can interfere with antigen target recognition by this reagent. This should be taken into account when samples are analyzed from patients treated in this fashion. IQ Products has not characterized the effect of the presence of therapeutic antibodies on the performance of this reagent.
3. Reagents can be used in different combinations, therefore laboratories need to become familiar performance characteristics of each antibody in relation with the combined markers in normal and abnormal samples.
4. Reagent performance can be affected by the use of anticoagulants.



#### Handling and Storage

Antibodies are supplied in phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4. Store the vials at 2-8°C. Monoclonal antibodies should be protected from prolonged exposure to light when conjugated with fluorochromes. 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.

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

### References

1. Khoo US, Chan KY, Chan VS, Lin CL: DC-SIGN and L-SIGN: the SIGNs for infection. J Mol Med. 2008 Aug;86(8):861-74.
2. van Kooyk Y, Geijtenbeek TB: A novel adhesion pathway that regulates dendritic cell trafficking and T cell interactions. Immunol Rev. 2002 Aug;186:47-56.
3. Geijtenbeek TB, Engering A, Van Kooyk Y: DC-SIGN, a C-type lectin on dendritic cells that unveils many aspects of dendritic cell biology. J Leukoc Biol. 2002 Jun;71(6):921-31.
4. Ryan EJ, Marshall AJ, Magaletti D, Floyd H, Draves KE, Olson NE, Clark EA: Dendritic cell-associated lectin-1: a novel dendritic cell-associated, C-type lectin-like molecule enhances T cell secretion of IL-4. J Immunol. 2002 Nov 15;169(10):5638-48.

### Explanation of used symbols

	Consult instructions for use
	Catalogue number
	Sufficient for
	Caution, consult accompanying document
	Keep away from (sun)light
	Biological risks
	Temperature limitation (°C)
	For Research Use Only
	Batch code
	Use by yyyy-mm-dd
	Manufacturer

		<b>Label - tandem</b>	<b>Ex -max (nm)</b>	<b>Em -max (nm)</b>
P	PURE	purified material	-	-
F	FITC	FITC	488	519
R	R-PE	PE	488, 532	578
C	CyQ	PE-Cy5.18	488, 532	667
A	APC		595, 633, 635, 647	660
PC	PerCP		488, 532	678
PCC	PerCP-Cy5.5		488, 532	695



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