

### 30-2860PE: PE Conjugated Anti-Human CD315 MAb (Clone: 1F11)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	1F11
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	PE
<b>Gene :</b>	PTGFRN
<b>Gene ID :</b>	5738
<b>Uniprot ID :</b>	Q9P2B2
<b>Format :</b>	Purified
<b>Alternative Name :</b>	prostaglandin F2 receptor inhibitor, PF2RI, SMAP-6, PTGFRN, FPRP, EWI-F
<b>Isotype :</b>	Mouse IgG1

#### Description

**Specificity :** The mouse monoclonal antibody 1F11 recognizes an extracellular epitope of CD315, a type I transmembrane glycoprotein expressed on keratinocytes, activated monocytes, and a subset of B cells.

CD315, also known as prostaglandin F2 receptor negative regulator, is an approximately 135 kDa transmembrane glycoprotein, which associates with actin cytoskeleton, and with CD9 and CD81, but not with other tetraspanins. It seems to be involved in regulation of cell polarity and motility. CD315 is expressed mainly by keratinocytes, activated monocytes, and a subset of B cells, but it can be also used for distinguishing between strongly positive colon cancer and fibrosarcoma cells, and their negative normal cell counterparts.

#### Product Info

<b>Amount :</b>	100 Tests
<b>Purification :</b>	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
<b>Content :</b>	stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	Store at 2-8°C protected from light. Do not freeze.

#### Application Note

**Flow cytometry:** The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 106 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

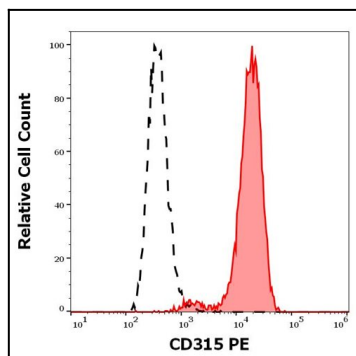


Figure 1: Separation of A431 cells stained using anti-human CD315 (1F11) PE antibody (10  $\mu$ l reagent per million cells in 100  $\mu$ l of cell suspension, red-filled) from A431 cells stained using mouse IgG1 isotype control (MOPC-21) PE antibody (concentration in sample 5  $\mu$ g/ml, same as CD315 PE concentration, black-dashed) in flow cytometry analysis (surface staining) of A431 cell suspension.