

**DESCRIPTION**

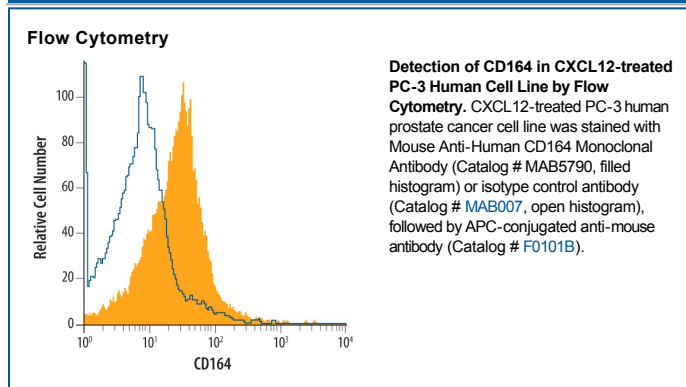
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CD164 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse CD164 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>3</sub> Clone # 502021
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human CD14 Asp24-Leu197 Accession # Q04900
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in Tris and NaCl with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

CD164, also known as endolyn, MGC-24, and MUC-24, is an 80-100 kDa transmembrane sialomucin protein that is expressed by epithelial cells, T and B cells, monocytes, hematopoietic progenitor cells, and activated basophils. CD164 functions as an adhesion molecule and a negative regulator of cell proliferation. A soluble isoform is generated by alternate splicing. CD164 was identified as a potential regulator of homing in a prostate cancer screening for CXCL12-responsive adhesion molecules (1). Within the ECD, human CD164 shares approximately 53% sequence identity with mouse and rat CD164.

**References:**

1. Havens, A.M. *et al.* (2006) BMC Cancer 2006, **6**:195.