**Rabbit Anti-CXCR4/CD184 [MD45R]: RM0407, RM0407RTU7**

**Intended Use:** For Research Use Only

**Description:** The C-X-C or a chemokine family is characterized by a pair of cysteine residues separated by a single amino acid and primarily functions as chemoattractants for neutrophils. The C-X-C family includes IL-8, NAP-2, MSGA and stromal cell derived factor-1 (SDF-1). SDF-1 was originally described as a pre-B cell stimulatory factor, but has now been shown to function as a potent chemo-attractant for T cells and monocytes but not neutrophils. Receptors for the C-X-C family are G protein-coupled, seven pass transmembrane domain proteins which include IL-8RA, IL-8RB and CXCR4 (also known as LESTR or fusin). CXCR4 is highly homologous to the IL-8 receptors, sharing 37% sequence identity at the amino acid level. The IL-8 receptors bind to IL-8, NAP-2 and MSGA, while fusin binds to its cognate ligand, SDF-1. CXCR4 has been identified as the major co-receptor for T-tropic HIV-1 and SDF-1 has been shown to inhibit HIV-1 infection.

**Specifications:**
- **Clone:** MD45R
- **Source:** Rabbit
- **Isotype:** IgG
- **Reactivity:** Human
- **Localization:** Membrane
- **Formulation:** Antibody in PBS 7.4, containing <0.2% BSA and <0.02% sodium azide (NaN3)
- **Storage:** Store at 2°-8°C
- **Applications:** IHC, Flow Cyt.

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog No.</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>CXCR4/CD184 Concentrated</td>
<td>RM0407</td>
<td>1 ml</td>
</tr>
<tr>
<td>CXCR4/CD184 Prediluted</td>
<td>RM0407RTU7</td>
<td>7 ml</td>
</tr>
</tbody>
</table>

**IHC Procedure**:  
- **Positive Control Tissue:** Cervical ca, ovarian adenoca, tonsil  
- **Concentrated Dilution:** 25-100  
- **Pretreatment:** Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
- **Incubation Time and Temp:** 30-60 minutes @ RT  
- **Detection:** Refer to the detection system manual  
* Result should be confirmed by an established diagnostic procedure.

**References:**