

**CD207**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2666a****Specification**

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**CD207 - Product Information**

Application	<b>E, WB</b>
Primary Accession	<a href="#">O9UJ71</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>Mouse IgG2b</b>
Calculated MW	<b>36.7kDa KDa</b>

**Immunogen**

Purified recombinant fragment of human CD207 (AA: extra 155-328) expressed in E. Coli.

**Formulation**

Purified antibody in PBS with 0.05% sodium azide

**CD207 - Additional Information**

**Gene ID** 50489

**Other Names**

CLEC4K

**Dilution**

E~~ 1/10000

WB~~ 1/500 - 1/2000

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CD207 is for research use only and not for use in diagnostic or therapeutic procedures.

**CD207 - Protein Information**

**Name** CD207

**Synonyms** CLEC4K

**Function**

Calcium-dependent lectin displaying mannose-binding specificity. Induces the formation of Birbeck granules (BGs); is a potent regulator of membrane superimposition and zippering. Binds to sulfated as well as mannosylated glycans, keratan sulfate (KS) and beta-glucans. Facilitates

uptake of antigens and is involved in the routing and/or processing of antigen for presentation to T cells. Major receptor on primary Langerhans cells for *Candida* species, *Saccharomyces* species, and *Malassezia furfur*. Protects against human immunodeficiency virus-1 (HIV-1) infection. Binds to high-mannose structures present on the envelope glycoprotein which is followed by subsequent targeting of the virus to the Birbeck granules leading to its rapid degradation.

#### Cellular Location

Membrane; Single-pass type II membrane protein. Note=Found in Birbeck granules (BGs), which are organelles consisting of superimposed and zippered membranes

#### Tissue Location

Exclusively expressed by Langerhans cells. Expressed in astrocytoma and malignant ependymoma, but not in normal brain tissues.

### CD207 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### CD207 - Images

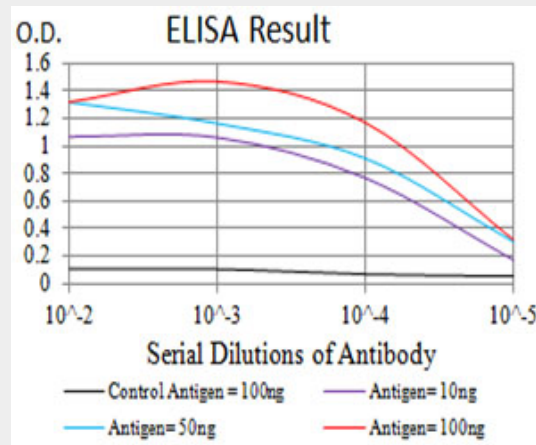


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

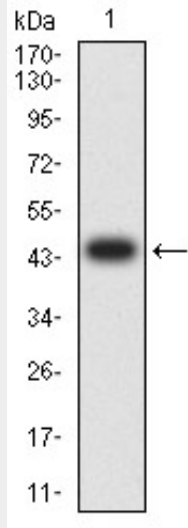


Figure 2:Western blot analysis using CD207 mAb against human CD207 (AA: extra 155-328) recombinant protein. (Expected MW is 45.8 kDa)

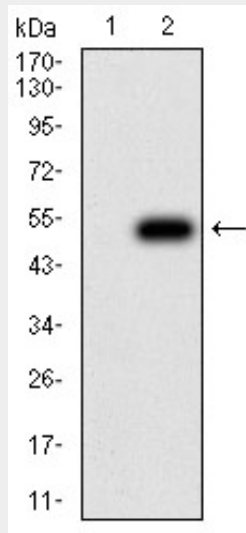


Figure 3:Western blot analysis using CD207 mAb against HEK293 (1) and CD207 (AA: extra 155-328)-hlgGfC transfected HEK293 (2) cell lysate.

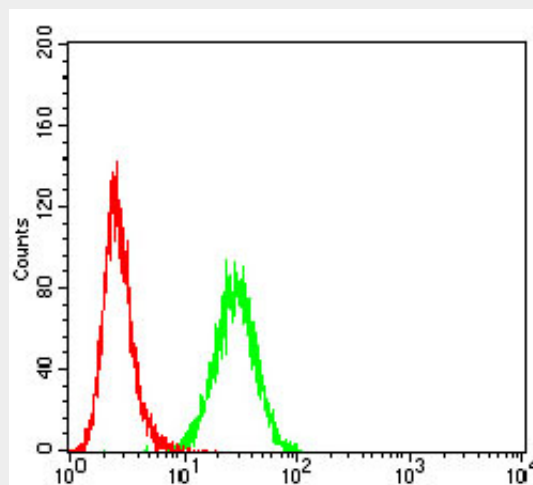


Figure 4:Flow cytometric analysis of K562 cells using CD207 mouse mAb (green) and negative

control (red).

### **CD207 - References**

1. Immunol Cell Biol. 2015 Oct;93(9):815-24. 2. J Immunol. 2011 Feb 1;186(3):1377-83.