

CD207
Purified Mouse Monoclonal Antibody
Catalog # AO2666a**Specification****CD207 - Product Information**

Application	WB, IHC, ICC, E
Primary Accession	Q9UJ71
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b
Calculated MW	36.7kDa KDa

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

WB~~ 1/500 - 1/2000

IHC~~1:100~500

ICC~~N/A

E~~ 1/10000

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

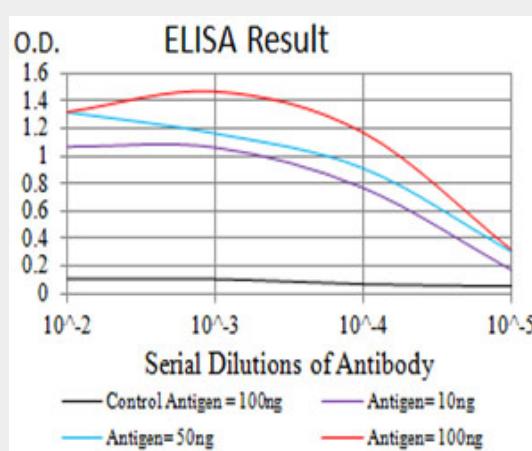


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

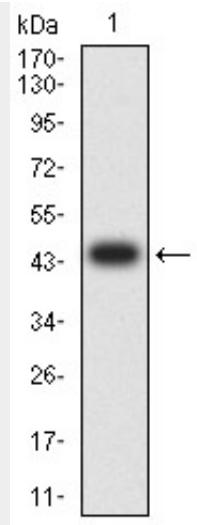


Figure 2:Western blot analysis using CD207 mAb against human CD207 (AA: extra 155-328) recombinant protein. (Expected MW is 45.8 kDa)

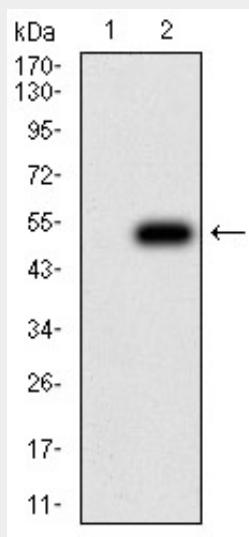


Figure 3:Western blot analysis using CD207 mAb against HEK293 (1) and CD207 (AA: extra 155-328)-hIgGFc transfected HEK293 (2) cell lysate.

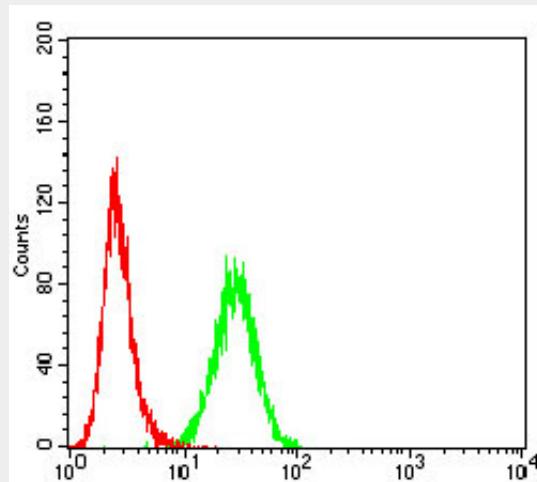


Figure 4:Flow cytometric analysis of K562 cells using CD207 mouse mAb (green) and negative

control (red).

CD207 - References

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