



# Rabbit Anti-Human CD209 Monoclonal antibody, clone S160 (CABT-L201R)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Immunogen</b>	Recombinant Human CD209
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Clone</b>	S160
<b>Purification</b>	Protein A purified This antibody is purified from cell culture supernatant by protein A affinity chromatography to a purity of >95% (by SDS-PAGE).
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA (Det) We recommend the following for sandwich ELISA(Capture - Detection): CABT-L201M - CABT-L201R
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	100 µl
<b>Buffer</b>	PBS
<b>Preservative</b>	None
<b>Storage</b>	Maintain at -20°C for up to 12 months. Avoid repeated freeze-thaw cycles. Store product

undiluted.

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**Ship** Wet ice

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## BACKGROUND

### Introduction

Pathogen-recognition receptor expressed on the surface of immature dendritic cells (DCs) and involved in initiation of primary immune response. Thought to mediate the endocytosis of pathogens which are subsequently degraded in lysosomal compartments. The receptor returns to the cell membrane surface and the pathogen-derived antigens are presented to resting T-cells via MHC class II proteins to initiate the adaptive immune response. Probably recognizes in a calcium-dependent manner high mannose N-linked oligosaccharides in a variety of pathogen antigens, including HIV-1 gp120, HIV-2 gp120, SIV gp120, ebolavirus glycoproteins, cytomegalovirus gB, HCV E2, dengue virus gE, Leishmania pifanoi LPG, Lewis-x antigen in Helicobacter pylori LPS, mannose in Klebsiella pneumoniae LPS, di-mannose and tri-mannose in Mycobacterium tuberculosis ManLAM and Lewis-x antigen in Schistosoma mansoni SEA. On DCs it is a high affinity receptor for ICAM2 and ICAM3 by binding to mannose-like carbohydrates. May act as a DC rolling receptor that mediates transendothelial migration of DC precursors from blood to tissues by binding endothelial ICAM2. Seems to regulate DC-induced T-cell proliferation by binding to ICAM3 on T-cells in the immunological synapse formed between DC and T-cells.

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### Keywords

CD209; CD209 molecule; CD209 antigen; CDSIGN; CLEC4L; DC SIGN; DC SIGN1; HIV gp120-binding protein; C-type lectin domain family 4 member L; C-type lectin domain family 4 member L; dendritic cell-specific ICAM-3-grabbing non-integrin 1; dendritic cell-spe

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