

# DC-SIGN Monoclonal Antibody (eB-h209), FITC

Catalog NumberA18347

Product data sheet

Details		Species Reactivity	
Size	25 tests	Species reactivity	Human
Host/Isotope	Rat / IgG2a, kappa	Tested Applications	
Class	Monoclonal	Flow Cytometry (Flow)	Dilution *
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Clone	eB-h209		
Immunogen	Human CD209		
Conjugate	FITC		
Form	Liquid		
Concentration	0.1 mg/mL		
Storage Conditions	4° C, store in dark		

## Background/Target Information

This gene encodes a transmembrane receptor and is often referred to as DC-SIGN because of its expression on the surface of dendritic cells and macrophages. The encoded protein is involved in the innate immune system and recognizes numerous evolutionarily divergent pathogens ranging from parasites to viruses with a large impact on public health. The protein is organized into three distinct domains: an N-terminal transmembrane domain, a tandem-repeat neck domain and C-type lectin carbohydrate recognition domain. The extracellular region consisting of the C-type lectin and neck domains has a dual function as a pathogen recognition receptor and a cell adhesion receptor by binding carbohydrate ligands on the surface of microbes and endogenous cells. The neck region is important for homo-oligomerization which allows the receptor to bind multivalent ligands with high avidity. Variations in the number of 23 amino acid repeats in the neck domain of this protein are rare but have a significant impact on ligand binding ability. This gene is closely related in terms of both sequence and function to a neighboring gene (GeneID 10332; often referred to as L-SIGN). DC-SIGN and L-SIGN differ in their ligand-binding properties and distribution. Alternative splicing results in multiple variants.

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