

Product Sheet



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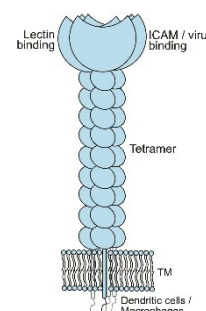
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Dendritic Cell-Specific Intercellular adhesion molecule-3-Grabbing Non-integrin (DC-SIGN)

Catalogue no.: Q94c
Clone name: 3H11

Product: VHH directed against DC-SIGN
Target: Dendritic Cell-Specific Intercellular adhesion molecule-3-Grabbing Non-integrin (DC-SIGN or CD209, UniprotKB Q9NNX6), is a C-type lectin pathogen receptor that is expressed on the surface of macrophages and dendritic cells. It is involved in the primary immune response by taking up and degrading pathogens. On macrophages, DC-SIGN binds to pathogen associated molecular patterns (PAMPs), which triggers phagocytosis. On dendritic cells, it also recognizes pathogens but in addition, interactions of DC-SIGN with intercellular adhesion molecules (ICAMs) also facilitate dendritic cell rolling along blood endothelium and CD4+ T cell activation. DC-SIGN is also used as target for vaccination.¹⁻⁵



Source: Recombinant monoclonal VHH (Llama glama), purified from *S.cerevisiae* using affinity chromatography. Immunization with cancer cells. Phage-display selection on recombinant DC-SIGN using total elution.

Specificity: Human DC-SIGN.

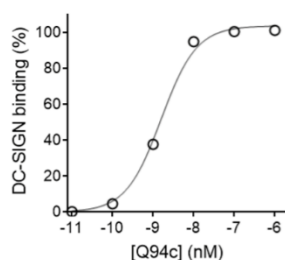
Formulation: 0.2 µm filtered solution in PBS. The products are equipped with a C-terminal C-Direct tag with an unpaired cysteine for directional conjugation.

Mol. Weight: 15.3 kDa
Ext. Coeff. (ε): 23045 M⁻¹ cm⁻¹
A₂₈₀ at 1g/L: 1.5

Storage: Shipped on blue ice. Store at 4 °C or -20 °C (aliquots). Addition of 0.02% sodiumazide is optional.

Applications: ELISA, IF, FACS

Examples:



Binding of Q94c to recombinant DC-SIGN in ELISA.

References:

- 1 Geijtenbeek et al., (2000) Cell, 100(5):575-85
- 2 Engering et al., (2002) J Immunol, 168(5):2118-26
- 3 McGreal et al., (2005) Curr Opin Immunol, 17(1):18-24
- 4 Geijtenbeek et al., (2000) Nat Immunol, 1(4):353-7
- 5 Fehres et al., (2015) J Invest Dermatol. 135(9):2228-2236