BTN2A1 binds DC-SIGN

Garapati, P V., Reith, W., Rhodes, DA.
Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

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Literature references


Reactome database release: 82

This document contains 1 reaction (see Table of Contents)
**BTN2A1 binds DC-SIGN**

**Stable identifier:** R-HSA-8851018

**Type:** binding

**Compartments:** plasma membrane

Butyrophilin 2A1 (BTN2A1) can bind to a lectin molecule, DC-specific ICAM3-grabbing non-integrin (DC-SIGN; also known as CD209), found on monocytes and dendritic cells. Binding of DC-SIGN is dependent on the tumor- and/or tissue-specific high-mannose glycosylation of BTN2A1 (Malcherek et al. 2007). BTN2A1 may represent a susceptibility gene for metabolic syndrome and myocardial infarction through an effect on dyslipidaemia (Fujimaki et al. 2011, Hiramatsu et al. 2012, Yamada et al. 2011, Arnett & Viney 2014).

**Literature references**


**Editions**

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