

# BTNL9 binds immune cell surfaces

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## 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

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- Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res*, 46, D649-D655. [↗](#)
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Reactome database release: 88

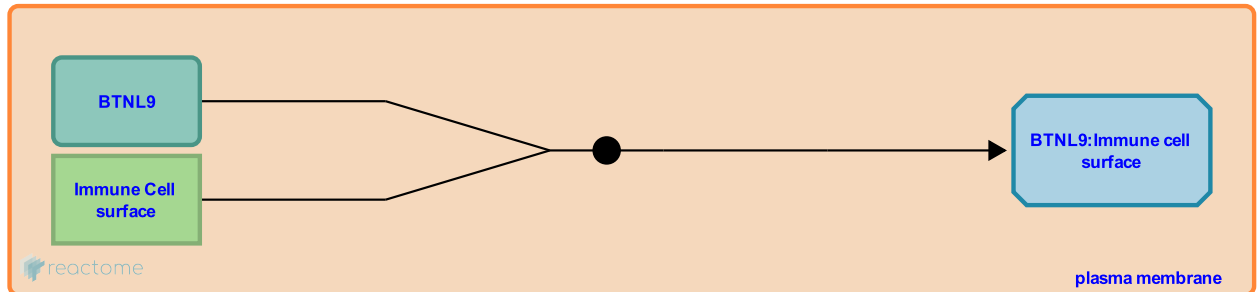
This document contains 1 reaction ([see Table of Contents](#))

## BTNL9 binds immune cell surfaces [↗](#)

**Stable identifier:** R-HSA-8851979

**Type:** binding

**Compartments:** plasma membrane



Butyrophilin-like protein 9 (BTNL9) is expressed in a variety of tissues in humans and mice. No known function has been ascribed to BTNL9 but recombinant BTNL9-Fc has been shown to bind to many immune cells including T cells, B cells, macrophages and dendritic cells (Yamazaki et al. 2010).

### Literature references

Graf, D., Dong, C., Martin-Orozco, N., Goya, I., Yamazaki, T., Craig, S. (2010). A butyrophilin family member critically inhibits T cell activation. *J. Immunol.*, 185, 5907-14. [↗](#)

### Editions

2016-01-05	Authored, Edited	Garapati, P V.
2016-09-09	Reviewed	Reith, W.
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