

ALB binds extracellular heme

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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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Reactome database release: 74

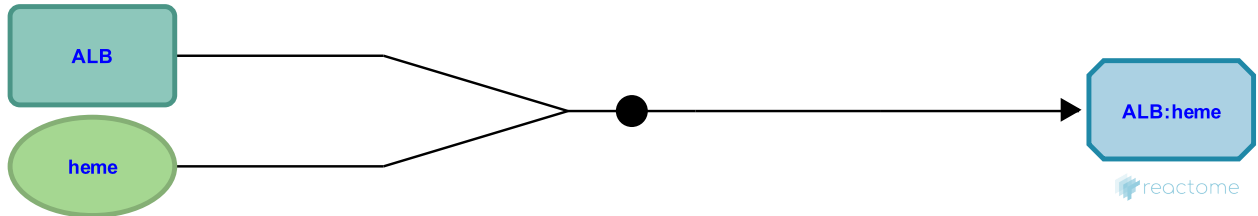
This document contains 1 reaction ([see Table of Contents](#))

ALB binds extracellular heme [↗](#)

Stable identifier: R-HSA-9661419

Type: binding

Compartments: extracellular region



Circulating free heme is cytotoxic. Binding of albumin (ALB) to heme protects cells from this potential toxicity (Desuzinges-Mandon et al. 2010).

Literature references

Desuzinges-Mandon, E., Arnaud, O., Martinez, L., Huché, F., Di Pietro, A., Falson, P. (2010). ABCG2 transports and transfers heme to albumin through its large extracellular loop. *J. Biol. Chem.*, 285, 33123-33. [↗](#)

Editions

2019-09-16	Authored, Edited	Jassal, B.
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