Phosphorylation of SLP-76 by p-SYK

Garapati, P V., Lanier, LL.
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.

The development of Reactome is supported by grants from the US National Institutes of Health (P41 HG003751), University of Toronto (CFREF Medicine by Design), European Union (EU STRP, EMI-CD), and the European Molecular Biology Laboratory (EBI Industry program).

Literature references


Reactome database release: 73

This document contains 1 reaction (see Table of Contents)
**Phosphorylation of SLP-76 by p-SYK**

**Stable identifier:** R-HSA-2396594  
**Type:** transition  
**Compartments:** plasma membrane

SLP-76 lacks intrinsic catalytic activity and acts as a scaffold, recruiting other proteins for correct localization during molecular signal transduction (Bogin et al. 2007). Activation of DAP12-associated receptors leads to tyrosine phosphorylation of SLP-76 (Gross et al. 1999). SLP-76 has three potential tyrosine phosphorylation sites within its amino terminus region: Y113, Y128, and Y145. Phosphorylation may be mediated by SYK, analogous to the role of ZAP-70 in phosphorylating T-cell SLP-76 (Bubeck-Wardenberg et al. 1996).

**Literature references**


**Editions**

<table>
<thead>
<tr>
<th>Date</th>
<th>Author/Editor</th>
<th>Reviewer</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012-05-25</td>
<td>Authored, Edited</td>
<td>Garapati, P V.</td>
</tr>
<tr>
<td>2012-08-09</td>
<td>Reviewed</td>
<td>Lanier, LL.</td>
</tr>
</tbody>
</table>