

Active NIK phosphorylates IKKA dimer

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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: 70

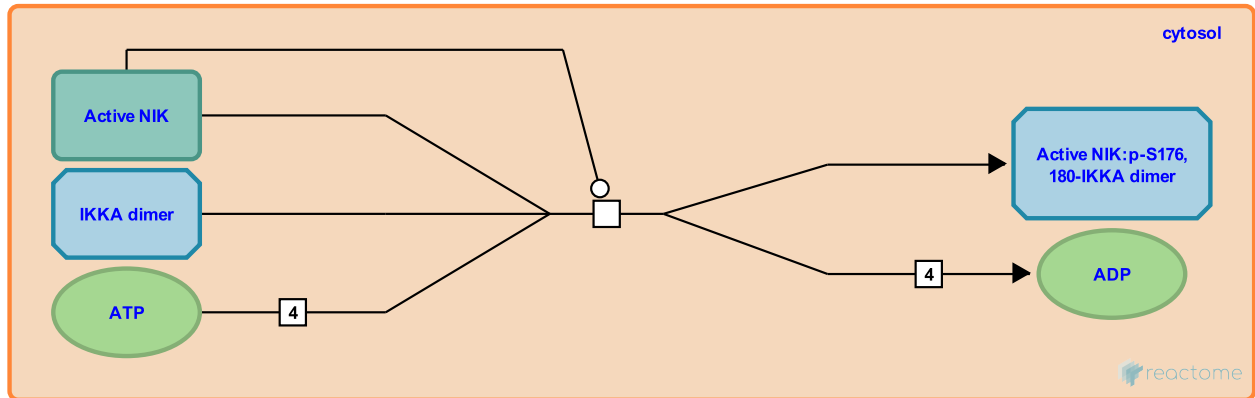
This document contains 1 reaction ([see Table of Contents](#))

Active NIK phosphorylates IKKA dimer ↗

Stable identifier: R-HSA-5607722

Type: transition

Compartments: cytosol



Accumulated NF- κ B-inducing kinase (NIK) activates I kappa-B kinase alpha (IKKA) by directly phosphorylating the Ser176 and Ser180 within the activation loop of IKKA. This phosphorylation is required for IKKA activity (Ling et al. 1998). Besides activating IKKA, NIK also serves as a docking molecule recruiting IKKA to p100 (Xiao et al. 2004).

Literature references

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Editions

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