Importin-8 binds AGO2:miRNA

Li, LC., May, B., Stroynowska-Czerwinska, A.
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


Importin-8 binds AGO2:miRNA

**Stable identifier:** R-HSA-5578712

**Type:** binding

**Compartments:** cytosol

Importin-8 (IPO8, IMP8, RANBP8) binds AGO2:miRNA complexes in the cytosol and participates in the importation of AGO2:miRNA complexes into the nucleus (Weinmann et al. 2009, Wei et al. 2014). IPO8 is also required for recruitment of AGO2:miRNA complexes to many target mRNAs in the cytosol and their efficient silencing (Weinmann et al. 2009). Moreover, other Argonautes (AGO1, AGO3, AGO4) are also observed in the nucleus (Kim et al. 2008, Weinmann et al. 2009, Ahlenstiel et al. 2012, Gagnon et al. 2014) and may be imported by the same mechanism.

**Literature references**


**Editions**

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