

# FANCD2 deubiquitination by USP1:WDR48

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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: 88

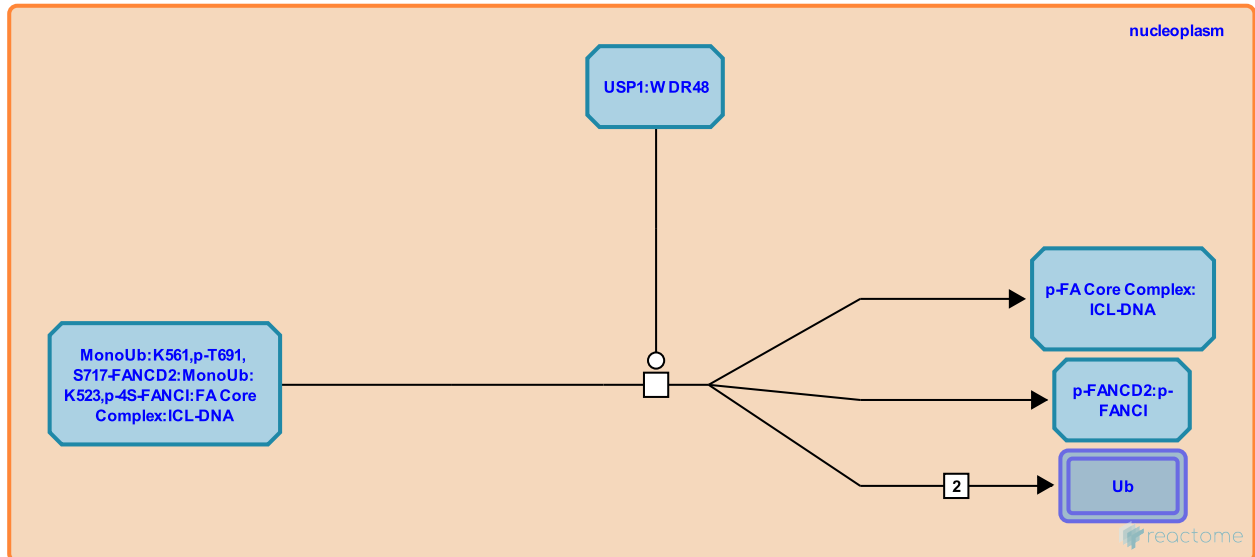
This document contains 1 reaction ([see Table of Contents](#))

## FANCD2 deubiquitination by USP1:WDR48 [↗](#)

**Stable identifier:** R-HSA-6786171

**Type:** transition

**Compartments:** nucleoplasm



The FA pathway is negatively regulated through the USP1:WDR48-mediated deubiquitination of FANCD2 (Nijman et al. 2005). WDR48 (UAF1) forms a complex with and activates USP1 (Cohn et al. 2007).

### Literature references

Cohn, MA., Gygi, SP., Huang, TT., Yang, K., D'Andrea, AD., Haas, W. et al. (2007). A UAF1-containing multisubunit protein complex regulates the Fanconi anemia pathway. *Mol Cell*, 28, 786-97. [↗](#)

### Editions

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