

# Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](#) on Apr 29, 2025

## FMRP Antibody

RRID:AB\_1903978

Type: Antibody

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### Proper Citation

(Cell Signaling Technology Cat# 4317, RRID:AB\_1903978)

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### Antibody Information

**URL:** [http://antibodyregistry.org/AB\\_1903978](http://antibodyregistry.org/AB_1903978)

**Proper Citation:** (Cell Signaling Technology Cat# 4317, RRID:AB\_1903978)

**Target Antigen:** FMRP

**Host Organism:** rabbit

**Clonality:** polyclonal

**Comments:** Applications: W, IP, IF-IC

**Antibody Name:** FMRP Antibody

**Description:** This polyclonal targets FMRP

**Target Organism:** rat, h, m, mouse, r, human, mk

**Antibody ID:** AB\_1903978

**Vendor:** Cell Signaling Technology

**Catalog Number:** 4317

**Record Creation Time:** 20231110T072551+0000

**Record Last Update:** 20241115T010424+0000

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### Ratings and Alerts

No rating or validation information has been found for FMRP Antibody.

No alerts have been found for FMRP Antibody.

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## Data and Source Information

**Source:** [Antibody Registry](#)

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## Usage and Citation Metrics

We found 14 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](#).

Deng PY, et al. (2024) Circuit-based intervention corrects excessive dentate gyrus output in the fragile X mouse model. *eLife*, 12.

Hooshmandi M, et al. (2023) Excitatory neuron-specific suppression of the integrated stress response contributes to autism-related phenotypes in fragile X syndrome. *Neuron*, 111(19), 3028.

Winden KD, et al. (2023) Increased degradation of FMRP contributes to neuronal hyperexcitability in tuberous sclerosis complex. *Cell reports*, 42(8), 112838.

Deng PY, et al. (2022) FMRP regulates GABAA receptor channel activity to control signal integration in hippocampal granule cells. *Cell reports*, 39(7), 110820.

Ma R, et al. (2022) Protein interactome and cell-type expression analyses reveal that cytoplasmic FMR1-interacting protein 1 (CYFIP1), but not CYFIP2, associates with astrocytic focal adhesion. *Journal of neurochemistry*, 162(2), 190.

Zhou Z, et al. (2021) NGPF2 triggers synaptic scaling up through ALK-LIMK-cofilin-mediated mechanisms. *Cell reports*, 36(7), 109515.

Raj N, et al. (2021) Cell-type-specific profiling of human cellular models of fragile X syndrome reveal PI3K-dependent defects in translation and neurogenesis. *Cell reports*, 35(2), 108991.

Brandalise F, et al. (2020) Fragile X Mental Retardation Protein Bidirectionally Controls Dendritic Ih in a Cell Type-Specific Manner between Mouse Hippocampus and Prefrontal Cortex. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 40(27), 5327.

Gonatopoulos-Pournatzis T, et al. (2020) Autism-Misregulated eIF4G Microexons Control Synaptic Translation and Higher Order Cognitive Functions. *Molecular cell*, 77(6), 1176.

Licznerski P, et al. (2020) ATP Synthase c-Subunit Leak Causes Aberrant Cellular

Metabolism in Fragile X Syndrome. *Cell*, 182(5), 1170.

Edens BM, et al. (2019) FMRP Modulates Neural Differentiation through m6A-Dependent mRNA Nuclear Export. *Cell reports*, 28(4), 845.

Li L, et al. (2018) GKAP Acts as a Genetic Modulator of NMDAR Signaling to Govern Invasive Tumor Growth. *Cancer cell*, 33(4), 736.

Muslimov IA, et al. (2018) BC RNA Mislocalization in the Fragile X Premutation. *eNeuro*, 5(2).

Vidaki M, et al. (2017) A Requirement for Mena, an Actin Regulator, in Local mRNA Translation in Developing Neurons. *Neuron*, 95(3), 608.