Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 15, 2025

Rabbit anti-YTHDC2 Antibody, Affinity Purified

RRID:AB_10752592
Type: Antibody

Proper Citation

(Bethyl Cat# A303-025A, RRID:AB_10752592)

Antibody Information

URL: http://antibodyregistry.org/AB_10752592

Proper Citation: (Bethyl Cat# A303-025A, RRID:AB_10752592)

Target Antigen: YTHDC2

Host Organism: rabbit

Clonality: polyclonal

Comments: Applications: WB, IP
Original Manufacturer

Antibody Name: Rabbit anti-YTHDC2 Antibody, Affinity Purified

Description: This polyclonal targets YTHDC2

Target Organism: human

Antibody ID: AB_10752592

Vendor: Bethyl

Catalog Number: A303-025A

Alternative Catalog Numbers: A303-025A-T, A303-025A-M

Record Creation Time: 20231110T065457+0000

Record Last Update: 20241114T230917+0000

Ratings and Alerts

- ENCODE PROJECT External validation for lot: 1 is available under ENCODE ID: ENCAB501IJS - ENCODE https://www.encodeproject.org/antibodies/ENCAB501IJS

Warning: Discontinued at Thermo Fisher Scientific
Applications: WB, IP
Original Manufacturer Warning: ***Extracted Antibody Information:*** "Testis extracts were prepared by mechanically disrupting testes in lysis buffer (20 mM Tris-HCL, 135 mM NaCl, 10% glycerol, 10% Nonidet P-40, 5 mM EDTA, 1 mM PMSF and 1x Complete protease inhibitor). Extracts were incubated in lysis buffer for 30 min at 4°C, spun for 10 min, and then precleared with uncoupled Protein A Dynabeads (Invitrogen, Waltham, MA) for 45 min at 4°C. Testis extracts were then added to Protein A Dynabeads chemically crosslinked to rabbit anti-YTHDC2 (A303-025A, (RRID:***AB_10752592***),"

Extracted Specificity Statement: "Although faint immunofluorescence signal was also detected in round and elongating spermatids in cross-sections of tubules stained with anti-YTHDC2, similar faint fluorescence was also often observed in controls stained only with secondary antibody, suggesting background. The strong signal visible in interstitial cells between testis tubules (Figure 1D) was also present in sections of testis from Ythdc2 null mutants stained with YTHDC2 antibody, indicating that the staining in interstitial cells is non-***specific***. Staining cross-sections of human testis tubules with anti-YTHDC2 revealed an expression pattern similar to that observed in mouse, with human YTHDC2 not detected in germ cells around the periphery of the testis tubule (Figure 1G–I, arrowheads), but present in the cytoplasm of a subset of DDX4-positive germ cells positioned further inward, including pachytene spermatocytes marked by staining of the sex vesicle by ?-H2AX (Figure 1J, arrows)."

Data was mined by Antibody Watch (https://arxiv.org/pdf/2008.01937.pdf), from ***PMID:29087293***
Applications: WB, IP
Original Manufacturer Warning: ***Extracted Antibody Information:*** "After lysis, lysates were centrifuged for 10 min at max speed at 4°C. The supernatant was collected and diluted with an equal volume of binding/wash buffer (25 mM Tris-HCl pH7.5, 150 mM KCl, 5 mM EDTA, 0.5% NP-40, 0.5 mM DTT, 1x Complete protease inhibitor, and 100 U/mL RNasOUT). Lysates were precleared by incubation with uncoupled Protein A Dynabeads (Invitrogen) for 1 hr at 4°C. Following preclearing, 10% of the lysate was saved for input and stored at 4°C, and the remaining lysate was added to Protein A Dynabeads chemically crosslinked to rabbit anti-YTHDC2 (A303-025A, (RRID:***AB_10752592***)"

Extracted Specificity Statement: "Although faint immunofluorescence signal was also detected in round and elongating spermatids in cross-sections of tubules stained with anti-YTHDC2, similar faint fluorescence was also often observed in controls stained only with secondary antibody, suggesting background. The strong signal visible in interstitial cells between testis tubules (Figure 1D) was also present in sections of testis from Ythdc2 null mutants stained with YTHDC2 antibody, indicating that the staining in interstitial cells is non-***specific***. Staining cross-sections of human testis tubules with anti-YTHDC2 revealed an

expression pattern similar to that observed in mouse, with human YTHDC2 not detected in germ cells around the periphery of the testis tubule (Figure 1G–I, arrowheads), but present in the cytoplasm of a subset of DDX4-positive germ cells positioned further inward, including pachytene spermatocytes marked by staining of the sex vesicle by ?-H2AX (Figure 1J, arrows)."

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PMID:29087293
Applications: WB, IP
Original Manufacturer

Data and Source Information

Source: Antibody Registry

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Bailey AS, et al. (2017) The conserved RNA helicase YTHDC2 regulates the transition from proliferation to differentiation in the germline. eLife, 6.