# Product Datasheet

## DAZL Antibody

## NB100-2437

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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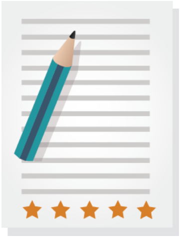
**Publications: 16**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-2437

Updated 9/9/2025 v.20.1



# NB100-2437

DAZL Antibody

| Product Information | |
|---|---|
| **Unit Size** | 0.1 mg |
| **Concentration** | 0.5 mg/ml |
| **Storage** | Store at -20C. Avoid freeze-thaw cycles. |
| **Clonality** | Polyclonal |
| **Preservative** | 0.02% Sodium Azide |
| **Isotype** | IgG |
| **Purity** | Immunogen affinity purified |
| **Buffer** | Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA |

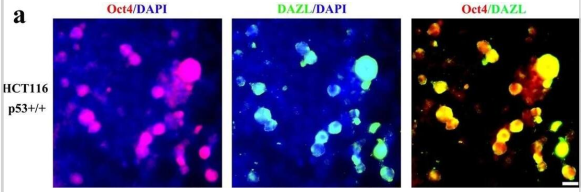
| Product Description | |
|---|---|
| **Description** | Novus Biologicals Knockout (KO) Validated Goat DAZL Antibody (NB100-2437) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-DAZL Antibody: Cited in 16 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| **Host** | Goat |
| **Gene ID** | 1618 |
| **Gene Symbol** | DAZL |
| **Species** | Human, Mouse, Rat, Canine |
| **Reactivity Notes** | Canine reactivity reported in scientific literature (PMID: 23690628). Human reactivity reported in scientific literature (PMID: 29713018). Mouse reactivity scientific literature (PMID: 29721205) . Predicted cross-reactivity based on sequence identity: Bovine. |
| **Immunogen** | Peptide with sequence C-GNGPQKKSVDR corresponding to internal region according to NP_001342.2. |

| Product Application Details | |
|---|---|
| **Applications** | Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Peptide ELISA, PCR |
| **Recommended Dilutions** | Western Blot 0.5 - 1 ug/mL, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Peptide ELISA Detection limit 1:32000, PCR |
| **Application Notes** | Use in PCR reported in scientific literature (PMID:33791879) Western blot: Approx. 38 kDa band observed in Rat Testis lysates (calculated MW of 31.4 kDa according to NP_001102884.1). Use in ICC/IF reported in scientific literature (PMID: 26916381). Use in IHC reported in scientific literature (PMID: 30302273). Use in IHC-P reported in scientific literature (PMID: 29721205). |

## Images

Western Blot: DAZL Antibody [NB100-2437] - Rat Testes lysate (35 ug protein in RIPA buffer). Antibody at 1 ug/mL. Detected by chemiluminescence.

Germ cell-like cells are enriched in diverse human cancer cell lines.a Immunofluorescence assay showed that expression and colocalization of Oct4 and DAZL in a subset of cultured p53+/+ HCT116 cells. b The percentages of Ifitm3+ cells in diverse cancer cell lines with or without p53 were analyzed by flow cytometry (n = 3). c Diverse cancer cell lines were injected subcutaneously into nude mice (1 × 105 cells/mouse), and tumors were collected for H&E staining. The incidence for liver-like tissues, pancreas-like tissues, and cartilage-like tissues was counted. Representative tumor sections from PC3 cells stained with H&E were shown. d The ratio of ifitm3+ in the isogenic wild-type and p53−/− HCT116 cancer cell lines was analyzed by flow cytometry (n = 5), **p < 0.01. e The relative expression of a series of germ cell-related markers in paired p53+/+ and p53−/− HCT116 cells was analyzed by RT-PCR. f The plot showed the tumor growth curve from nude mice injected with p53−/− HCT116 and p53+/+ HCT116 cells. g The relative ratio of Ifitm3+ in p53−/− HCT116 cells with or without p53 restoration from multiple single-cell clones was analyzed by flow cytometry (n = 12). **p < 0.01. h The relative ratio of Ifitm3+ cells in RKO cells with control or p53 knockdown was analyzed by flow cytometry (n = 3). **p < 0.01. Tumor volume from nude mice injected subcutaneously with RKO cells with control or p53 knockdown was shown (n = 3). **p < 0.01. i A total of 100 Ifitm3+ cells isolated from diverse cancer cell lines were injected subcutaneously into nude mice for tumorigenicity assay (n = 5). The tumor sections from PC3 cells were stained with H&E (scale bar = 20 µm) Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/30302273), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Ma Z, Zhang F, Xiong J et al. Activation of embryonic/germ cell-like axis links poor outcomes of gliomas Cancer cell international 2022-11-26 [PMID: 36435765]

Zhan Ma, Fengyu Z, Aiping L et al. Somatic-to-primordial Germ Cell-Like Transformation is Critical in Tumour Initiation of Mouse Breast Tumour 4T1 Cells Preprint 2022-11-04 [PMID: 37168326] (KO, WB, Mouse)

Sun S, Jiang Y, Zhang Q et al. Znhit1 controls meiotic initiation in male germ cells by coordinating with Stra8 to activate meiotic gene expression Developmental cell 2022-04-11 [PMID: 35413238]

Liu, C, Ma, Z Et al. Identification of primordial germ cell-like cells as liver metastasis initiating cells in mouse tumour models. Cell Discov 2020-03-24 [PMID: 33758163]

Sayed WM, Elzainy A Impact of platelet-rich plasma versus selenium in ameliorating induced toxicity in rat testis: histological, immunohistochemical, and molecular study Cell and tissue research 2021-04-01 [PMID: 33791879] (PCR)

Liu C, Ma Z, Cai Z et Al. Identification of primordial germ cell-like cells as liver metastasis initiating cells in mouse tumour models Cell Discov 2020-03-24 [PMID: 32218989] (IF/IHC, Mouse)

Liu C, Cai Z, Jin G et al. Abnormal gametogenesis induced by p53 deficiency promotes tumor progression and drug resistance. Cell Discov. 2018-10-02 [PMID: 30302273] (IF/IHC, Mouse)

Levi M, Stemmer SM, Stein J et al. Treosulfan induces distinctive gonadal toxicity compared with busulfan Oncotarget 2018-04-10 [PMID: 29721205] (IHC-P, Mouse)

Fang F, Angulo B, Xia N et al. A PAX5-OCT4-PRDM1 developmental switch specifies human primordial germ cells Nat. Cell Biol. 2018-06-01 [PMID: 29713018] (Human)

Guo K, Li CH, Wang XY et al. Germ stem cells are active in postnatal mouse ovary under physiological conditions. Mol. Hum. Reprod. 2016-05-01 [PMID: 26916381] (ICC/IF, Mouse)

Levi M, Tzabari M, Savion N et al. Dexrazoxane exacerbates doxorubicin-induced testicular toxicity. Reproduction 2015-10-01 [PMID: 26329125] (IHC-P, Mouse)

Cauffman G, Van de Velde H, Liebaers I, Van Steirteghem A. DAZL expression in human oocytes, preimplantation embryos and embryonic stem cells. Mol Hum Reprod 2005-06-01 [PMID: 15879466]

More publications at [http://www.novusbio.com/NB100-2437](http://www.novusbio.com/NB100-2437)

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## Products Related to NB100-2437

| | |
|---|---|
| NB820-59243 | Human Ovary Whole Tissue Lysate (Adult Whole Normal) |
| NBP2-33376H | Blue Marker Antibody (6F4-F6) [HRP] |
| HAF017 | Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)] |
| HAF109 | Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)] |
| NB410-28088-1mg | Goat IgG Isotype Control |

### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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