Product Datasheet

Septin-12 Antibody - Azide and BSA Free
H00124404-B01P

Unit Size: 0.05 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 12

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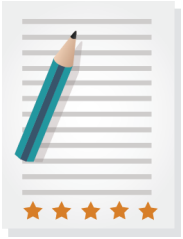
Updated 2/21/2025 v.20.1



H00124404-B01P

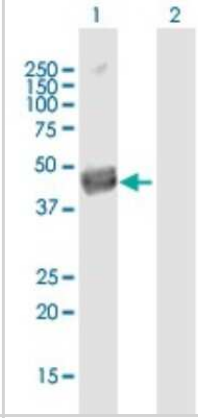
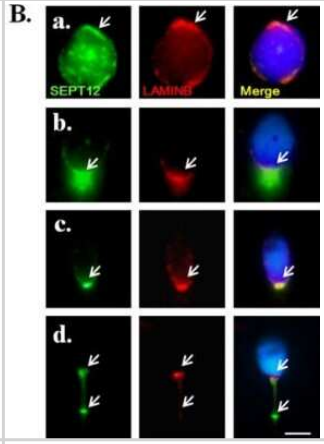
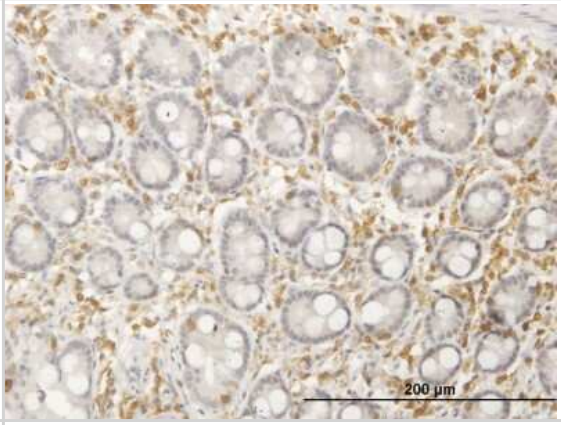
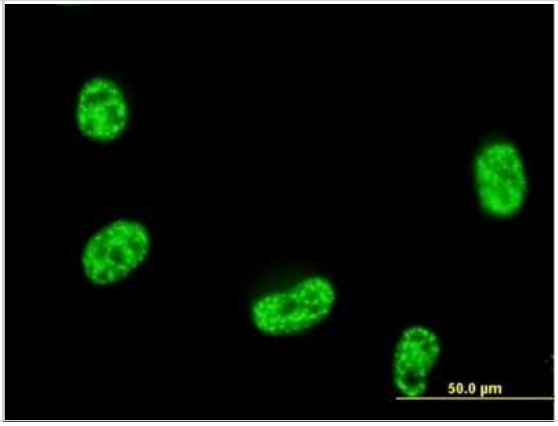
Septin-12 Antibody - Azide and BSA Free

Product Information	
Unit Size	0.05 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Protein A purified
Buffer	PBS (pH 7.4)

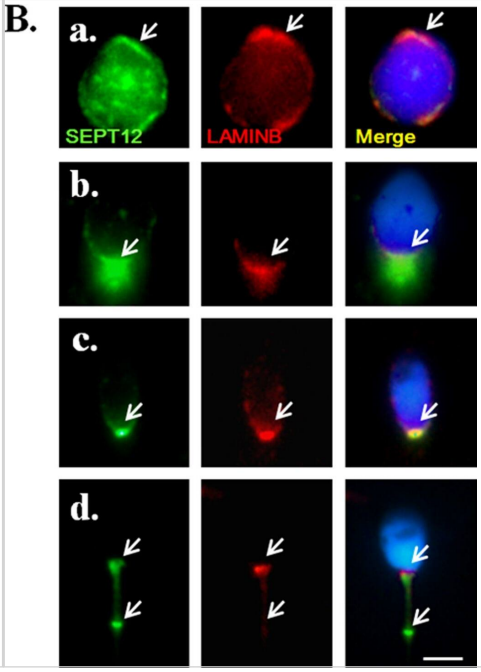
Product Description	
Host	Mouse
Gene ID	124404
Gene Symbol	SEPT12
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 24213608)
Specificity/Sensitivity	Sept 12 - septin 12,
Immunogen	SEPT12 (AAH35619.1, 1 a.a. - 358 a.a.) full-length human protein. MDPLRRSPSPCLSSQPSSPSTPPCEMLGPVGIEAVLDQLKIKAMKMGFEFNIM VVGQSGLGKSTMVNTLFKSKVWKSNPPGLGVPTPQTLQLHSLTHVIEEKGVKL KLTVTDTPGFGDQINNDNCWDPILGYINEQYEQYLQEEILITRQRHIPDTRVHCC VYFVPPTGHCLRPLDIEFLQRLCRTVNVVPVIARADSLTMEEREAFRRRIQQNL RTHCIDVYPQMCFDEDINDKILNSKLRDRIPFAVVGADQEHLVNGRCVLGRKTK WGIIEVENMAHCEFPLLRDLLIRSHLQDLKDITHNIHYENYRVIRLNESHLLPRGP GWVNLAPASPGQLTTPRTFKVCRGAHDDSDDEF
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin
Application Notes	Antibody reactive against Recombinant Protein with GST tag on ELISA and Western Blot and also on transfected lysate in western blot. GST tag alone is used as a negative control. May also be used for immunofluorescence, immunohistochemistry (paraffin). Use in immunprecipitation reported in scientific literature (PMID 24213608)

Images

Western Blot: Septin-12 Antibody [H00124404-B01P] - Analysis of SEPT12 expression in transfected 293T cell line by SEPT12 polyclonal antibody. Lane 1: SEPT12 transfected lysate(39.38 KDa). Lane 2: Non-transfected lysate.	
Immunocytochemistry/Immunofluorescence: Septin-12 Antibody [H00124404-B01P] - An IFA revealed multiple localizations of SEPT12 and LAMINB1 signals. A total of 32 male germ cells were were evaluated as (a.) Round spermatids (n = 9; labeled with anti-SEPT12 and anti-LAMINB1 antibodies as the presented figure,9/9); (b.) elongating and (c.) elongated spermatids (n = 11;11/11); (d.) ejaculated spermatozoa (n = 10;10/10). (a.-d.) Anti-SEPT12 antibody (left panel; green), anti-LAMINB1 antibody (middle panel; red), and a combination of the left and middle panels (right panel). The arrow indicates SEPT12 or LAMINB1 signals. Scale bar: 5 um. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0120722) licensed under a CC-BY license.	
Immunohistochemistry-Paraffin: Septin-12 Antibody [H00124404-B01P] - Analysis of purified antibody to SEPT12 on formalin-fixed paraffin-embedded human colon. (antibody concentration 3 ug/ml)	
Immunocytochemistry/Immunofluorescence: Septin-12 Antibody [H00124404-B01P] - Analysis of purified antibody to SEPT12 on HeLa cell. (antibody concentration 10 ug/ml)	

Immunocytochemistry/ Immunofluorescence: Septin-12 Antibody [H00124404-B01P] - SEPT12 interacts & colocalizes with LAMINB1 male germ cells.(A) Co-IP of FLAG-SPAG4 & LAIMINB1 with SEPT12-GFP. The cell lysates of the NT2D1 cells, transfected with pEGFP-SEPT12 & a pFLAG-SPAG4 vector, are subjected to IP with an anti-GFP antibody (right panel, Row 3) or a nonspecific control IgG (right panel, Row 2), followed by IB with an anti-GFP, anti-FLAG, or anti-LAMINB1 antibody. An input protein (5%) was used as a control during the IB of the transfected cell lysates (right panel, Row 1). (B) An IFA revealed multiple localizations of SEPT12 & LAMINB1 signals. A total of 32 male germ cells were were evaluated as (A) Round spermatids (n = 9; labeled with anti-SEPT12 & anti-LAMINB1antibodies as the presented figure,9/9); (B) elongating & (C) elongated spermatids (n = 11;11/11); (D) ejaculated spermatozoa (n = 10;10/10). (A–D) Anti-SEPT12 antibody (left panel; green), anti-LAMINB1 antibody (middle panel; red), & a combination of the left & middle panels (right panel). The arrow indicates SEPT12 or LAMINB1 signals. Scale bar: 5 μm. Image collected & cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pone.0120722), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Geng Y, Shao R, Xu T, Zhang L Identification of a potential signature to predict the risk of postmenopausal osteoporosis Gene 2023-11-05 [PMID: 37935322] (WB, Human)

Details:
1:2000 dilution

Xie J, Yu J, Fan Y et al. Low dose lead exposure at the onset of puberty disrupts spermatogenesis-related gene expression and causes abnormal spermatogenesis in mouse. Toxicol Appl Pharmacol. 2020-03-03 [PMID: 32142724]

Yi-Ru S, Han-Yu W, Yung-Chieh T et al. The SEPT12 complex is required for the establishment of a functional sperm head-tail junction. Mol Hum Reprod. 2020-05-11 [PMID: 32392324]

Rafaee A, Mohseni A, Yaghmaei P et al. Single-nucleotide polymorphism c.474G>A in the SEPT12 gene is a predisposing factor in male infertility. Mol Reprod Dev. 2019-12-27 [PMID: 31880374]

Chung-Hsin Y, Ya-Yun W, Shi-Kae W et al. Testis-Specific SEPT12 Expression Affects SUN Protein Localization and is Involved in Mammalian Spermiogenesis. Int J Mol Sci. 2019-03-07 [PMID: 30866452]

Kuo PL, Tseng JY, Chen HI et al. Identification of SEPTIN12 as a novel target of the androgen and estrogen receptors in human testicular cells. Biochimie 2018-12-01 [PMID: 30513371]

Huang CY, Wang YY, Chen YL et al. CDC42 Negatively Regulates Testis-Specific SEPT12 Polymerization. Int J Mol Sci 2018-09-05 [PMID: 30189608]

Lai TH, Wu YY, Wang YY et al. SEPT12-NDC1 Complexes Are Required for Mammalian Spermiogenesis. Int J Mol Sci 2016-11-16 [PMID: 27854341]

Yeh CH, Kuo PL, Wang YY et al. SEPT12/SPAG4/LAMINB1 complexes are required for maintaining the integrity of the nuclear envelope in postmeiotic male germ cells. PLoS One 2015-01-01 [PMID: 25775403] (ICC/IF, Human)

Kuo YC, Lin YH, Chen HI et al. SEPT12 mutations cause male infertility with defective sperm annulus. Hum Mutat. 2012-02-20 [PMID: 22275165]

Lin YH, Wang YY, Chen HI et al. SEPTIN12 Genetic Variants Confer Susceptibility to Teratozoospermia. PLoS One. 2012-03-30 [PMID: 22479503]

Kuo PL, Chiang HS, Wang YY et al. SEPT12-microtubule complexes are required for sperm head and tail formation. Int J Mol Sci. 2013-01-01 [PMID: 24213608] (IP, Mouse)

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Products Related to H00124404-B01P

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97019-5mg	Mouse IgG Isotype Control
H00124404-P01-10ug	Recombinant Human Septin-12 GST (N-Term) Protein

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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