

Product Datasheet

Acrosin Antibody - BSA Free NBP2-14260

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 14

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NBP2-14260

Acrosin Antibody - BSA Free

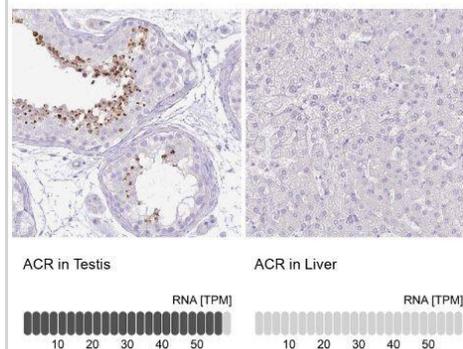
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Description	Novus Biologicals Rabbit Acrosin Antibody - BSA Free (NBP2-14260) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Acrosin Antibody: Cited in 13 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	49
Gene Symbol	ACR
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 27430551). Use in Mouse reported in scientific literature (PMID:32923619).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LMEARVDLIDLDCNSTQWYNGRVQPTNVCAGYPVGKIDTCQ

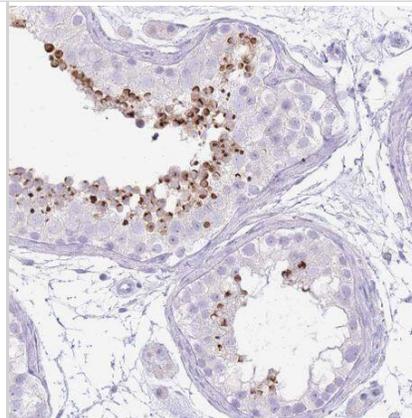
Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Immunohistochemistry 1:1000 - 1:2500, Immunocytochemistry/ Immunofluorescence Reported in scientific literature (PMID 27430551), Immunohistochemistry-Paraffin 1:1000 - 1:2500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

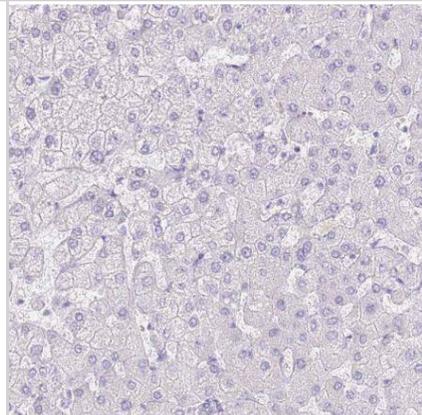
Analysis in human testis and liver tissues using NBP2-14260 antibody. Corresponding ACR RNA-seq data are presented for the same tissues.



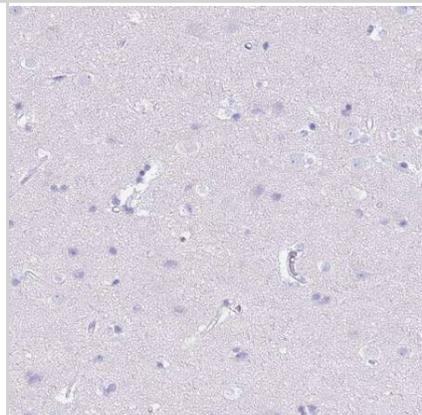
Staining of human testis show strong extracellular space and nuclear positivity in subset of cells in seminiferous ducts.



Staining of human liver shows no positivity in hepatocytes as expected.



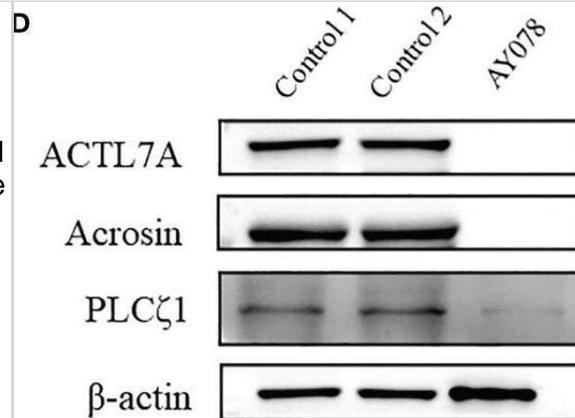
Staining of human cerebral cortex shows no positivity in neurons as expected.



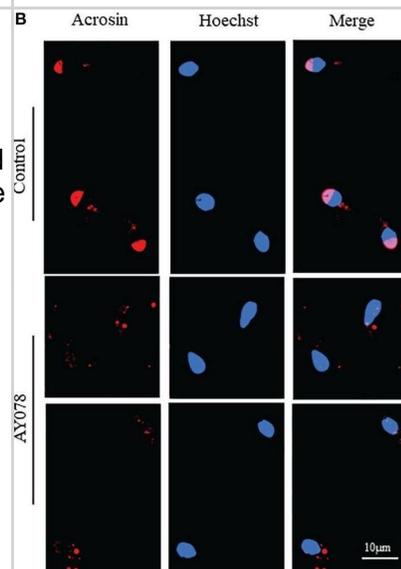
Staining of human lymph node shows no positivity in germinal center cells as expected.



The distribution and expression of acrosomal associated proteins in AY078 and control individual. (A–C) Immunofluorescence staining assays were performed on the sperm of AY078 and normal subject using anti-**ACTL7A**(red in A), anti-**ACROSIN** (red in B) and anti-**PLCz1** (red in C). Compared with cap-like staining of **ACTL7A** and **ACROSIN**, localized on anterior head in normal sperm, the signal in P1 of those proteins were absent from acrosome. The **PLCz1** normally localized in cap-like area of acrosome, while was absent, decreased and dispersive from normal region. Anti-ac-tubulin (green) marked the sperm flagella, Hoechst (blue) marked the nucleus of spermatozoa. Scale bars: 10mm. (D) WB assays analysis the expression levels of **ALTL7A**, **ACROSIN** and **PLCz1** in sperm obtained from P1 and normal control. The results of WB assays were accordance with those of immunofluorescence assays described above. b-actin was used as internal reference. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36742411>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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Publications

Jiaming S, Xie G, Xinlong W et al. Erucic acid impairs male fertility by suppressing retinoic acid synthesis in sertoli cells. *Ecotoxicology and environmental safety* 2025-08-31 [PMID: 40889457]

Sawaied A, Lunenfeld E, Huleihel M. Interleukin-34, a Novel Paracrine/Autocrine Factor in Mouse Testis, and Its Possible Role in the Development of Spermatogonial Cells In Vitro *International Journal of Molecular Sciences* 2020-10-30 [PMID: 33143373] (Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Rat)

Sawaied A, Arazi E, AbuElhija A et al. The Presence of Colony-Stimulating Factor-1 and Its Receptor in Different Cells of the Testis; It Involved in the Development of Spermatogenesis In Vitro *International Journal of Molecular Sciences* 2021-02-26 [PMID: 33652607] (Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Rat)

Shao ZM, Zhu YT, Gu M et Al. Novel variants in DNAH6 cause male infertility associated with multiple morphological abnormalities of the sperm flagella (MMAF) and ICSI outcomes *Asian J Androl* 2024-01-01 [PMID: 37594300]

Hua R, Xue R, Liu Y et al. ACROSIN deficiency causes total fertilization failure in humans by preventing the sperm from penetrating the zona pellucida *Human reproduction (Oxford, England)* 2023-06-01 [PMID: 37004249]

Tian-Ying Yang, Ying Chen, Guo-Wu Chen, Yi-Si Sun, Zhi-Chao Li, Xiao-Rong Shen, Yi-Ni Zhang, Wen He, Dan Zhou, Hui-Juan Shi, Ai-Jie Xin, Xiao-Xi Sun Sperm-specific protein ACTL7A as a biomarker for fertilization outcomes of assisted reproductive technology *Asian Journal of Andrology* 2022-01-01 [PMID: 35532568]

Yu H, Shi X, Shao Z et al. Novel HYDIN variants associated with male infertility in two Chinese families *Frontiers in endocrinology* 2023-01-18 [PMID: 36742411] (WB, ICC/IF, Human)

Ma Y, Chen J, Li H et al. Immature rat testis sustained long-term development using an integrative model *Biological research* 2022-10-04 [PMID: 36195947] (IF/IHC, Rat)

Yang TY, Chen Y, Chen GW et al. Sperm-specific protein ACTL7A as a biomarker for fertilization outcomes of assisted reproductive technology *Asian journal of andrology* 2022-02-18 [PMID: 35229759] (WB, Human)

Zhao Q, Huang JF, Cheng Y Et al. Polyamine metabolism links gut microbiota and testicular dysfunction *Microbiome* 2021-11-11 [PMID: 34758869] (IF/IHC, Mouse)

Nakamura N, Sloper DT Comparison of germ cell differentiation of rat testis fragments cultured in knockout serum replacement versus Albumax I *Birth defects research* 2020-12-21 [PMID: 33348473]

Xin A, Qu R, Chen G et al. Disruption in ACTL7A causes acrosomal ultrastructural defects in human and mouse sperm as a novel male factor inducing early embryonic arrest *Sci. Adv.* 2020-08-01 [PMID: 32923619] (ICC/IF, Human, Mouse)

More publications at <http://www.novusbio.com/NBP2-14260>



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Products Related to NBP2-14260

NBP2-14260PEP	Acrosin Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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