

Product Datasheet

Acrosin Antibody 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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Updated 10/23/2024 v.20.1

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NBP2-14260

Acrosin Antibody

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	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description

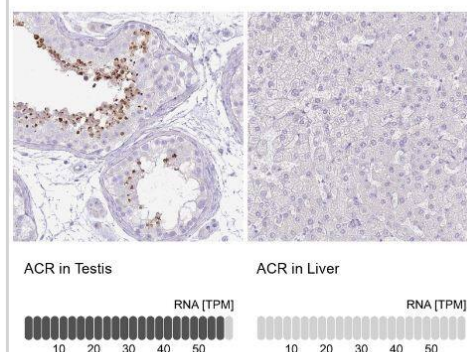
Host	Rabbit
Gene ID	49
Gene Symbol	ACR
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 27430551). Use in Mouse reported in scientific literature (PMID:32923619).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: LMEARVDLIDLDCNSTQWYNGRVQPTNVCAGYPVGKIDTCQ

Product Application Details

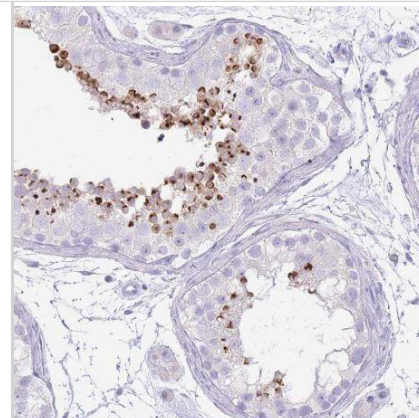
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Immunohistochemistry 1:1000 - 1:2500, Immunocytochemistry/ Immunofluorescence Reported in scientific literature (PMID 27430551), Immunohistochemistry-Paraffin 1:1000 - 1:2500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

Images

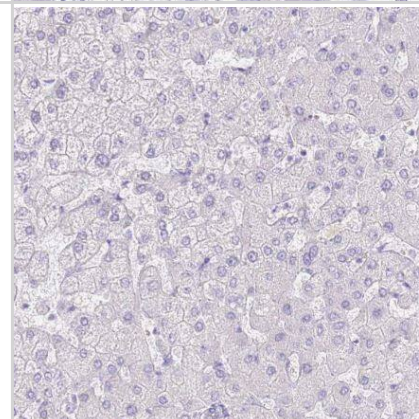
Analysis in human testis and liver tissues using NBP2-14260 antibody. Corresponding ACR RNA-seq data are presented for the same tissues.



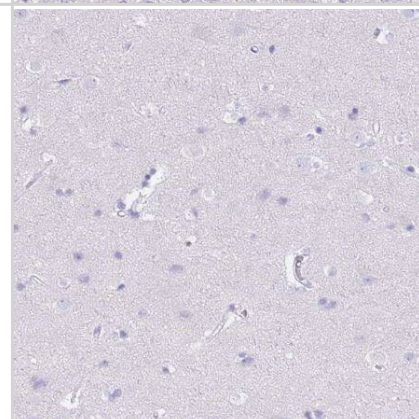
Staining of human testis show strong extracellular space and nuclear positivity in subset of cells in seminiferous ducts.



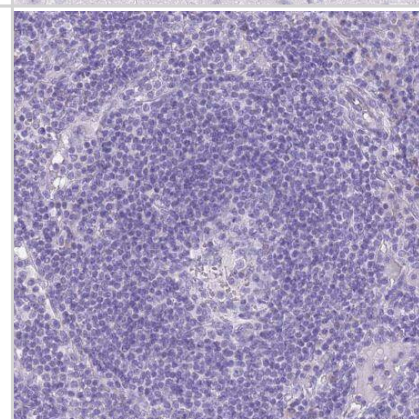
Staining of human liver shows no positivity in hepatocytes as expected.



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.



Publications

- 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]
- 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]
- 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] (Immunocytochemistry/ Immunofluorescence)
- 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)
- Nakamura N, Merry GE, Inselman AL et al. Evaluation of Culture Time and Media in an In Vitro Testis Organ Culture System. Birth Defects Res. 2017-04-17 [PMID: 28398669]
- Reda A, Hou M, Winton TR et al. In vitro differentiation of rat spermatogonia into round spermatids in tissue culture. Mol. Hum. Reprod. 2016-07-18 [PMID: 27430551] (IF/IHC, ICC/IF, Rat)





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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

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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