

EEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

Q.

Journal of Andrology, Vol. 25, No. 3, May/June 2004 Copyright © American Society of Andrology

Evidence for the Presence of Angiogenin in Human Testis

Need to search many iournals at once

KAORI KOGA^{*}, YUTAKA OSUGA^{*}, TETSU YANO^{*}, YUMIKO IKEZUKI^{*}, OSAMU YOSHINO^{*}, YASUSHI HIROTA^{*}, TETSUYA HIRATA^{*}, SHIGEO HORIE[†], TAKUYA AYABE[‡], OSAMU TSUTSUMI^{*,§} AND YUJI TAKETANI^{*}

From the ^{*} Department of Obstetrics and Gynecology, University of Tokyo, Hongo, Bunkyo-ku, Tokyo, Japan; the [†] Department of Urology, Kyorin University, Tokyo, Japan; the [‡] Department of Obstetrics and Gynecology, Teikyo University, Tokyo, Japan; and the [§] CREST Japan Science and Technology, Honmachi, Kawaguchi, Japan.

Correspondence to: Yutaka Osuga, Department of Obstetrics and Gynecology, University of Tokyo, 7-3-1, Hongo, Bunkyo-ku, Tokyo, 113-8655, Japan (e-mail: yutakaos-tky{at}umin.ac.jp).

We have reported the expression and possible roles of angiogenin, a potent angiogenic factor, in human female reproductive organs. In this study, we

investigated the expression of angiogenin in the human testis, a male reproductive organ. Western blot analysis showed the presence of angiogenin in the human testis, with a single band of the same size as recombinant human angiogenin. Immunohistochemical study and in situ hybridization showed that the angiogenin protein and messenger RNA (mRNA) localized in peritubular myoid cells (PTMCs) and vascular endothelial and smooth muscle cells. PTMCs are known to play various roles in the testes concerned with spermatogenesis, transport of spermatozoa, structural support to the seminiferous tubules, and mediation of Sertoli cell function. The specific localization of

angiogenin in PTMCs suggests that angiogenin plays physiologic roles in the human testis.

Key words: Immunohistochemistry, in situ hybridization

This article has been cited by other articles:



Reproductive Sciences G. Rajashekhar, A. Loganath, A. C. Roy, S. S. Chong, and Y. C. Wong Hypoxia Up-regulated Angiogenin and Down-regulated Vascular Cell Adhesion Molecule-i Expression and Secretion in Human Placental Trophoblasts Reproductive Sciences, July 1, 2005; 12(5): 310 - 319. [Abstract] [PDF]

This Article

- Full Text
- Full Text (PDF)
- Alert me when this article is cited
- Alert me if a correction is posted

Services

- Similar articles in this journal
- Similar articles in PubMed
- Alert me to new issues of the journal
- Download to citation manager

Citing Articles

- Citing Articles via HighWire
- Citing Articles via Google Scholar

Articles by Koga, K.

- Articles by Taketani, Y.
- Search for Related Content

PubMed

PubMed Citation

HOME

- Articles by Koga, K.
- Articles by Taketani, Y.

JCEM	THE JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM HOME
	T. Hirata, Y. Osuga, Y. Hirota, K. Koga, O. Yoshino, M. Harada, C. Morimoto, T. Yano, O. Nishii, O. Tsutsumi, <i>et al.</i>
	Evidence for the Presence of Toll-Like Receptor 4 System in the
•1+	Human Endometrium
	J. Clin. Endocrinol. Metab., January 1, 2005; 90(1): 548 - 556.
	[Abstract] [Full Text] [PDF]

HOME HELP FEEDBACK SUBSCRIPTIONS ARCHIVE SEARCH TABLE OF CONTENTS

Copyright © 2004 by The American Society of Andrology.