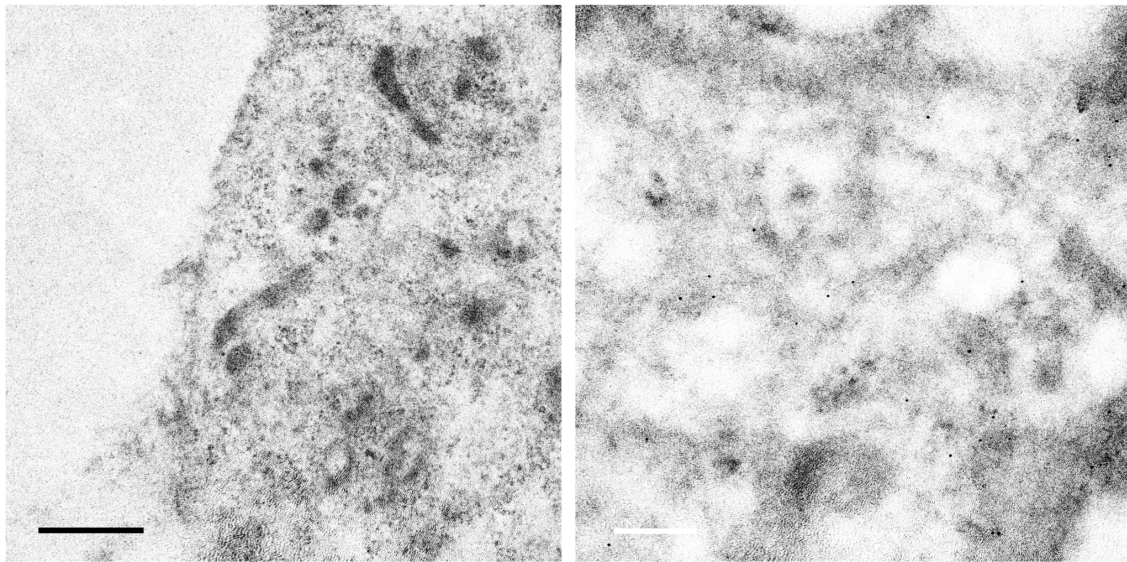


#### Online Resource 4

##### Distribution of CHG-A in the H1299-RESTKO-PROX1 cells

Immunoelectron micrography of the REST-deficient and PROX1-transfected H1299 cells. Thin sections were treated with a rabbit polyclonal anti-CHG-A antibody and a mouse monoclonal anti-ACTH antibody, and then incubated with an anti-rabbit secondary antibody coupled to 5 nm gold and an anti-mouse secondary antibody coupled to 15 nm gold. Gold colloids sized 15 nm (ACTH, POMC gene product) were not observed, 5 nm (CHG-A) was scattered in the cytoplasm, and no accumulation in a specific structure was confirmed. Black scale bar, 1  $\mu\text{m}$ . White scale bar, 0.2  $\mu\text{m}$ .



**“Endocrine secretory granule production is caused by a lack of REST and intragranular secretory content and accelerated by PROX1”,**

Journal of Molecular Histology,

Jun Ishii, Hanako Sato-Yazawa, Korehito Kashiwagi, Kazuhiko Nakadate, Masami Iwamoto, Kakeru Kohno, Chie Miyata-Hiramatsu, Meitetsu Masawa, Masato Onozaki, Shuhei Noda, Tadasuke Miyazawa, Megumi Takagi, Takuya Yazawa.

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