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[home](#) [page](#) [about us](#) [contact](#)

[us](#)

Table of  
Contents

**VETMED  
2015**

**VETMED  
2014**

**VETMED  
2013**

**VETMED  
2012**

**VETMED  
2011**

**VETMED  
2010**

**VETMED  
2009**

**VETMED  
2008**

**VETMED  
2007**

**VETMED  
2006**

**VETMED  
2005**

**VETMED  
2004**

**VETMED  
2003**

**VETMED  
2002**

**VETMED  
2001**

**VETMED  
Home**

---

**Editorial  
Board**

**For Authors**

- **Authors  
Declaration**
- **Instruction  
to Authors**
- **Guide for**

**Authors**

▪ **Fees**

▪ **Submission**

---

**Subscription**

## Veterinari Medicina

Immunohistochemical localization of calbindin-D28k in the kidney and cerebellum of the porcupines (*Hystrix cristata*)

S. Timurkaan, A. Aydin, M. Kaban

Veterinari Medicina, 48 (2003): 369-372

[ [fulltext](#) ]

The localization of calbindin in the kidney and cerebellum of *Hystrix cristata* was investigated immunohistochemically using an antiserum against the 28k Da calbindin of chicken duodenum.

Calbindin-D28k is an intracellular protein with a high affinity for calcium. This protein is exclusively localized in the distal convoluted tubules of the kidney and in Purkinje cells of the cerebellum. Functionally, calbindin-D28k is supposed to be involved in the regulation of the reabsorption of calcium in the distal nephron, though the exact regulatory mechanisms are not yet known.

**Keywords:**

calbindin-D28k; kidney; cerebellum;  
*Hystrix cristata*; immunohistochemist

[ [fulltext](#) ]

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