



# Animal NGAL

## Scientific references

This selected list of publications has been chosen to cover a broad range of clinically relevant areas for the new kidney biomarker NGAL.

### Mouse

#### NGAL in mouse models of nephrotoxicity

Kuwabara T, Mori K, Mukoyama M, Kasahara M, Yokoi H, Saito Y, Yoshioka T, Ogawa Y, Imamaki H, Kusakabe T, Ebihara K, Omata M, Satoh N, Sugawara A, Barasch J, Nakao K (2009) Urinary neutrophil gelatinase-associated lipocalin levels reflect damage to glomeruli, proximal tubules, and distal nephrons. *Int Soc Nephrol* 75:285-294.

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Mishra J, Ma Q, Prada A, Mitsnefes M, Zahedi K, Yang J, Barasch J, Devarajan P (2003) Identification of neutrophil gelatinase-associated lipocalin as a novel early urinary biomarker for ischemic renal injury. *J Am Soc Nephrol* 14:2534-2543.

#### NGAL in mouse models of ischemia

Mori K, Lee HT, Rapoport D, Drexler IR, Foster K, Yang J, Schmidt-Ott KM, Chen X, Li JY, Weiss S, Mishra J, Cheema FH, Markowitz G, Suganami T, Sawai K, Mukoyama M, Kunis C, D'Agati V, Devarajan P, Barasch J (2005) Endocytic delivery of lipocalin-siderophore-iron complex rescues the kidney from ischemia-reperfusion injury. *J Clin Invest* 115:610-621.

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Mori K and Nakao K (2007) Neutrophil gelatinase-associated lipocalin as the real-time indicator of active kidney damage. *Kidney International* 71:967-970.

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Liu Q, Ryon J, Nilsen-Hamilton M (1997) Uterocalin: a mouse acute phase protein expressed in the uterus around birth. *Mol Reprod Dev* 46:507-514.

Flower DR (1994) The lipocalin protein family: a role in cell regulation. *FEBS Letters* 354:7-11.

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Triebel S, Bläser J, Reinke H, Tschesche H (1992) A 25 kDa alpha2-microglobulin-related protein is a component of the 125 kDa form of human gelatinase. *FEBS Lett* 314:386-388.

Flower DR, North AC, Attwood TK (1991) Mouse oncogene protein 24p3 is a member of the lipocalin protein family. *Biochem Biophys Res Commun* 180:69-74.

## Rat

### NGAL in rat models of nephrotoxicity

Wang EJ, Snyder RD, Fielden MR, Smith RJ, Gu YZ (2008) Validation of putative genomic biomarkers of nephrotoxicity in rats. *Toxicology* 18:91-100.

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### NGAL in rat models of sepsis and infection

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