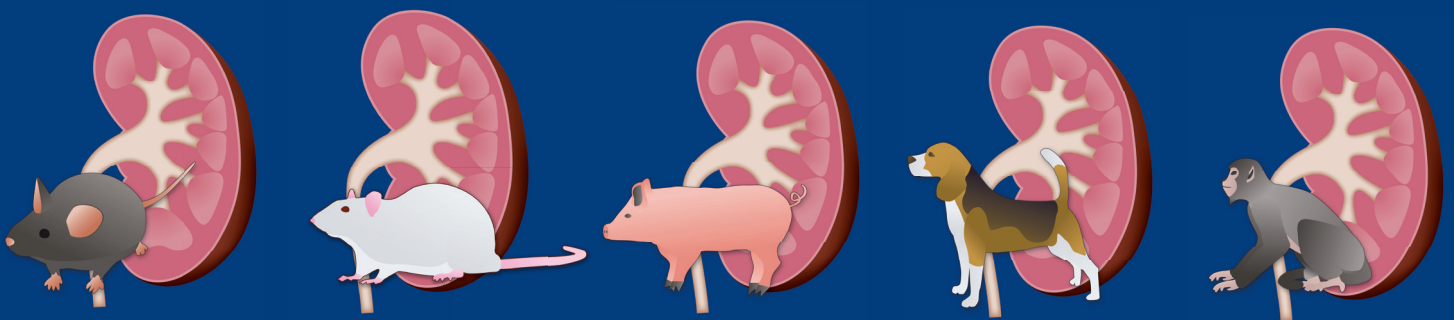


NGAL

the biomarker in renal toxicology

Early establishment of drug safety is a challenge for the pharmaceutical industry. One approach is to exploit the advantages of new biomarkers for organ damage. Clinical studies and experimental animal models have shown that NGAL could be of great value as a marker of kidney damage in both human diagnostics and drug development.

Because of its early, sensitive and graded response in kidney injury, NGAL permits the early and rapid assessment of the renal toxicity or safety of new compounds or treatments.



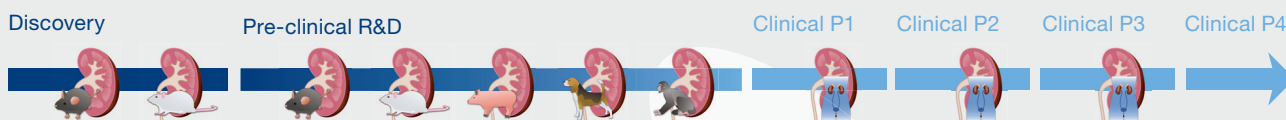
BIOPORTO[®]
Diagnostics

www.ngal.com

NGAL in drug development

In recent years NGAL has been shown to be perhaps the earliest biomarker to respond to acute kidney injury. After such injury, NGAL levels rise quickly and significantly in both urine and blood, showing a much wider response range than many other proposed biomarkers.

BioPorto Diagnostics was the first to market NGAL antibodies and assays and these have been widely quoted in the scientific literature since the discovery of NGAL's implication in kidney injury.



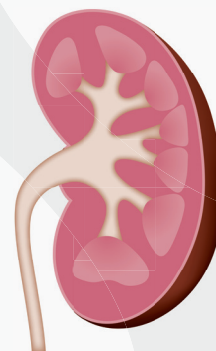
BioPorto's animal NGAL ELISA kits are intended for use in research and preclinical studies to detect rises in NGAL concentrations in urine and blood and hence the extent of renal injury, including nephrotoxic injury. The applications of BioPorto NGAL ELISA kits range from basic research and drug discovery to preclinical toxicity testing. BioPorto also offers human NGAL ELISA kits which can be used in clinical studies, e.g. to detect nephrotoxicity in the relevant phases of clinical trials.

Important applications of NGAL measurement for the pharmaceutical industry are as a:

- **Safety** biomarker - NGAL levels rise when the kidney is damaged
- **Efficacy** biomarker - NGAL levels fall when kidney damage is treated

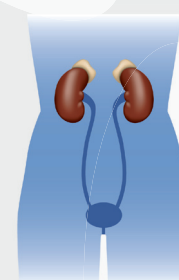
Animal NGAL kits and antibodies

Cat. No.	Product name
KIT 041	Rat NGAL ELISA Kit, up to 40 samples in duplicate
KIT 042	Mouse NGAL ELISA Kit, up to 40 samples in duplicate
ABS 038	Mouse monoclonal anti- monkey NGAL antibody
ABS 039*	Mouse monoclonal anti- rat NGAL antibodies
ABS 043*	Rat monoclonal anti- mouse NGAL antibodies
ABS 047*	Mouse monoclonal anti- dog NGAL antibodies
ABS 048*	Mouse monoclonal anti- pig NGAL antibodies



Human NGAL kits and antibodies

Cat. No.	Product name
KIT 036	NGAL ELISA Kit, up to 40 samples in duplicate
KIT 037	NGAL Rapid ELISA Kit, up to 42 samples in duplicate†
HYB 211*	Mouse monoclonal anti- human NGAL antibodies



† For *in-vitro* diagnostic (IVD) use in selected countries. Please visit www.bioporto.com for availability in your country.
* Also available biotinylated.

Coming soon: Dog NGAL ELISA Kit, Pig NGAL ELISA Kit and Monkey NGAL ELISA Kit.

For more information, please contact BioPorto Diagnostics or your local BioPorto Diagnostics distributor



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