



## **Monoclonal Antibody against Human Lipocalin-2 (2G1)**

**Catalog Number: 21050****Size: 100 ug****Host: Mouse**

### **Introduction to the molecule:**

Lipocalin-2(LCN2), also known as neutrophil gelatinase-associated lipocalin (NGAL), 24p3, or neutrophil lipocalin (NL), is a 25-kDa secretory glycoprotein. <sup>1</sup> LCN2 has been implicated in a variety of cellular processes including the innate immune response, differentiation, tumorigenesis, and cell survival <sup>2-3</sup>. It appears to be upregulated in various inflammation and infection conditions. Several reports suggest that LCN2 may represent a sensitive biomarker for various renal injuries<sup>4</sup> and is associated with several types of cancers, including breast cancer,<sup>5</sup> ovarian, colorectal, and pancreatic cancers. <sup>6-7</sup> Furthermore, a growing body of evidence suggests that serum levels of lipocalin-2 are correlated with obesity, insulin resistance, hyperglycemia, coronary heart disease and fatty liver disease in humans.<sup>8-11</sup>

### **Isotype/Preparation:**

**Mouse IgG**; Affinity chromatography on a column with immobilized protein G.

### **Immunogen:**

Recombinant full-length human lipocalin-2 in *E.coli*. (Cat. No: 41050).

### **Specificity:**

The antibody detects human LCN2.

### **Formulation:**

Supplied in PBS. Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

### **Application/Usage:**

This antibody can be used as a capture antibody in a human Lipocalin-2 ELISA in combination with monoclonal anti-human Lipocalin-2 antibody clone 2C3 (Cat. No.: 21051)





### **Reference:**

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- [3] Flo, T.H. et al. (2004) Nature 432:917-21.
- [4] Mishra, J. et al. (2005) Lancet 365:1231-6.
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- [10] Ruby LC Hoo, et al. (2008) Expert Rev. Endocrinol Metal 3(1):29-41. [11] Milner KL, et al. Hepatology [Epub ahead of print]

### **Contact Us**

- Website: [www.immunodiagnostics.com.hk](http://www.immunodiagnostics.com.hk)
- E-mail: [info@immunodiagnostics.com.hk](mailto:info@immunodiagnostics.com.hk)
- Tel: (+852) 2831 5526; 2831 5508
- Fax: (+852) 2816 2095

