**Mouse anti- human Neutrophil gelatinase-associated lipocalin/NGAL monoclonal antibody**  
**Catalog Number:** CSB-DA001AmN②  

<table>
<thead>
<tr>
<th><strong>Product Name</strong></th>
<th>Mouse anti-human Neutrophil gelatinase-associated lipocalin/NGAL monoclonal antibody</th>
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<td><strong>Synonym Names</strong></td>
<td>25 kDa alpha-2-microglobulin-related subunit of MMP-9; Lipocalin-2; Oncogene 24p3; p25; LCN2; HNL; NGAL</td>
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<tr>
<td><strong>Description</strong></td>
<td>Mouse anti-human Neutrophil gelatinase-associated lipocalin/NGAL monoclonal antibody MAbs: ②</td>
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<td><strong>Isotype</strong></td>
<td>IgG1 for MAb②</td>
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| **Application** | ELISA, WB, and other possible application  
Recommended pairs for the detection of Double-antibody sandwich ELISA :  
CSB-DA001AmN② – CSB-DA001DmN①  
CSB-DA001AmN②/ CSB-DA001DmN①–CSB-DA001AmN①  
CSB-DA001AmN②/ CSB-DA001DmN①–CSB-DA001AmN③ |
| **Purity** | >95% by Protein G purified |
| **Presentation:** | CSB-DA001AmN②:Preservative: 0.03% Proclin 300; Constituents: 0.01M PBS, PH 7.4 |
| **Storage** | Shipped at 4°C Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze. |

**Images**

All lanes: Mouse anti-human Neutrophil gelatinase-associated lipocalin monoclonal antibody at 1µg/ml  
Lane 1: NGAL transfected 293 cell lysate  
Predicted band size : 22 kDa  
Observed band size : 25 kDa  

**Introduction**

Iron-trafficking protein involved in multiple processes such as apoptosis, innate immunity and renal development. Binds iron through association with 2,5-dihydroxybenzoic acid (2,5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin, and delivers or removes iron from the cell, depending on the context. Iron-bound form (holo-24p3) is internalized following binding to the SLC22A17 (24p3R) receptor, leading to release of iron and subsequent increase of intracellular iron concentration. In contrast, association of the iron-free form (apo-24p3) with the SLC22A17 (24p3R) receptor is followed by association with an intracellular siderophore, iron chelation and iron transfer to the extracellular medium, thereby reducing intracellular iron concentration. Involved in apoptosis due to interleukin-3 (IL3) deprivation: iron-loaded form increases intracellular iron concentration without promoting apoptosis, while iron-free form decreases intracellular iron levels, inducing expression of the proapoptotic protein BCL2L11/BIM, resulting in apoptosis. Involved in innate immunity, possibly by sequestrating iron, leading to limit bacterial growth.

**References**


