

**Rabbit Anti-NGAL/Lipocalin-2 Polyclonal: RC0156, RC0156RTU7**

**Intended Use:** For Research Use Only

**Description:** In addition to the monomeric mammalian progelatinase, two additional forms of progelatinase have been identified. The shorter of these additional forms is a covalently linked, disulfide-bridged protein that heterodimerizes with a short protein; an  $\alpha$ 2-Microglobulin-related protein known as neutrophil gelatinase-associated lipocalin (NGAL), which is moderately expressed in breast and lung tissues. NGAL belongs to the lipocalin family and has a high degree of similarity with rat  $\alpha$ 2-Microglobulin-related protein and mouse protein 24p3. NGAL is able to bind a derivative of the bacterial chemotactic peptide, suggesting that it has important immuno-modulatory functions. NGAL has been described as an inflammatory protein; it is released into the circulation as a result of the inflammatory activation of leukocytes initiated by the extra-corporeal circulation. In addition, NGAL synthesis is induced in epithelial cells in inflammatory and neoplastic colorectal diseases. In conclusion, NGAL may serve as a scavenger of bacterial products to function in the anti-inflammatory process.

**Specifications**

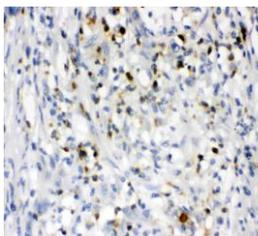
Clone: Polyclonal  
 Source: Rabbit  
 Isotype: IgG  
 Reactivity: Human  
 Localization: Secreted  
 Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq$  0.09% sodium azide (NaN<sub>3</sub>)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, ELISA, WB  
 Package:

Description	Catalog No.	Size
NGAL/Lipocalin-2 Polyclonal Concentrated	RC0156	1 ml
NGAL/Lipocalin-2 Polyclonal Prediluted	RC0156RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue: Intestinal cancer  
 Concentrated Dilution: 25-100  
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human intestinal cancer tissue stained with anti-NGAL using DAB

**References:**

1. Insulin treatment prevents wounding associated changes in tissue and circulating neutrophil MMP-9 and NGAL in diabetic rats. Abdollahi M, et al. PLoS One 12:e0170951 , 2017.
2. Antimicrobial peptides secreted by equine mesenchymal stromal cells inhibit the growth of bacteria commonly found in skin wounds. Harman RM, et al. Stem Cell Res Ther 8:157, 2017.
3. Blood transfusion improves renal oxygenation and renal function in sepsis-induced acute kidney injury in rats. Zafrani L, et al. Crit Care 20:406, 2016.
4. Fecal Neutrophil Gelatinase Associated Lipocalin (NGAL) as a biomarker for Inflammatory Bowel Disease. Thorsvik S, et al. J Gastroenterol Hepatol N/A:N/A, 2016.

Doc. 100-RC0156  
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