

## Anti-Lipocalin-2/LCN2 Antibody (3T285)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	3T285
Purification:	Protein A

## Applications

Verified Activity:	1. Immunochemical staining of human LCN2 in human ovarian cancer with rabbit monoclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.
	2. Immunochemical staining of human LCN2 in human lung with rabbit monoclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.
	3. Immunochemical staining of human LCN2 in human spleen with rabbit monoclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.
Application:	ELISA,IHC-P
Recommended	ELISA: 1:5000-1:10000; IHC-P: 1:500-1:2000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human Lipocalin-2/LCN2 Protein (TMPY-00873)
Antigen Species:	Human
Synonyms:	AW212229;Sip24;lipocalin 2;24p3

## Research Background

Lipocalin-2 (LCN2), also known as neutrophil gelatinase-associated lipocalin (NGAL), is a 25 kDa protein belonging to the lipocalin superfamily. It was initially found in activated neutrophils, however, many other cells, like kidney tubular cells, may produce NGAL in response to various insults. This protein is released from injured tubular cells after various damaging stimuli, is already known by nephrologists as one of the most promising biomarkers of incoming Acute Kidney Injury (AKI). Recent evidence also suggests its role as a biomarker in a variety of other renal and non-renal conditions. Moreover, recent studies seem to suggest a potential involvement of this factor also in the genesis and progression of chronic kidney diseases. NGAL is the first known mammalian protein that specifically binds organic molecules called siderophores, which are high-affinity iron chelators. NGAL, first known as an antibacterial factor of natural immunity, and an acute-phase protein, is currently one of the most interesting and enigmatic proteins involved in the process of tumor development. acting as an intracellular iron carrier and protecting MMP9 from proteolytic degradation, NGAL has a clear pro-tumoral effect, as has already been observed in different tumors (e.g. breast, stomach, esophagus, brain) in humans. In thyroid carcinomas, NGAL is strongly induced by NF- $\kappa$ B, an important factor involved both in tumor growth and in the link between chronic inflammation

and neoplastic development. Thus, Lipocalin-2 (LCN2/NGAL) has been implicated in a variety of processes including cell differentiation, proliferation, survival, and morphogenesis.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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