

Basic Information

Product Name	Anti-Lipocalin-2/NGAL/LCN2 Antibody	
Gene Name	LCN2	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	mouse, rat	
Tested Application	WB, IHC, ELISA	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E. coli-derived mouse Lipocalin 2 recombinant protein (Position: Q21-N200). Mouse Lipocalin 2 shares 62 % and 81.1 % amino acid (aa) sequence identity with human and rat Lipocalin 2, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	22 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

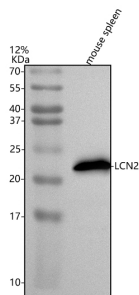
Background Information

Euophile gelatinase-associated lipocalin (NGAL) is a protein that in humans is encoded by the LCN2 gene. The binding of lipocalin-2 to bacterial siderophores is important in the innate immune response to bacterial infection. Upon encountering invading bacteria the toll-like receptors on immune cells stimulate the synthesis and secretion of lipocalin-2. Secreted lipocalin-2 then limits bacterial growth by sequestering iron-containing siderophores. Lipocalin-2 also functions as a growth factor.

Reference

Anti-Lipocalin-2/NGAL/LCN2 Antibody被引用在5文献中。

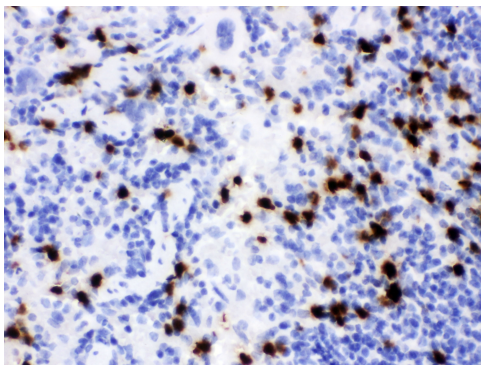
Selected Validation Data



Western blot analysis of Lipocalin-2/NGAL/LCN2 using anti-Lipocalin-2/NGAL/LCN2 antibody (PB0641). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: mouse spleen tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Lipocalin-2/NGAL/LCN2 antigen affinity purified polyclonal antibody (PB0641) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Lipocalin-2/NGAL/LCN2 at approximately 22 kDa. The expected band size for Lipocalin-2/NGAL/LCN2 is at 22 kDa.



IHC analysis of Lipocalin-2/NGAL/LCN2 using anti-Lipocalin-2/NGAL/LCN2 antibody (PB0641).

Lipocalin-2/NGAL/LCN2 was detected in a paraffin-embedded section of mouse spleen tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Lipocalin-2/NGAL/LCN2 Antibody (PB0641) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.