Product datasheet

Anti-Lipocalin-2/NGAL/LCN2 Antibody

Catalog Number: *PB9609*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-Lipocalin-2/NGAL/LCN2 Antibody
Gene Name	LCN2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, FCM, ELISA(Cap)
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived rat Lipocalin 2 recombinant protein (Position: Q21-N198). Rat Lipocalin 2 shares 64.4 % and 81.1 % amino acid (aa) sequence identity with human and mouse 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 Flow Cytometry (Fixed): 1:50-200 ELISA(Cap) 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℃ as supplied.

Background Information

Europhile 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.

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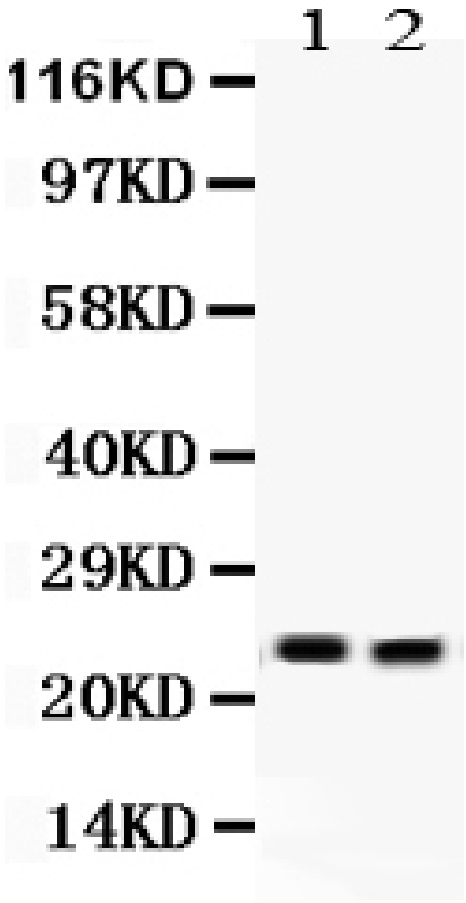
Reference

Anti-Lipocalin-2/NGAL/LCN2 Antibody被引用在8文献中。

Selected Validation Data



Western blot analysis of Lipocalin-2/NGAL/LCN2 using anti-Lipocalin-2/NGAL/LCN2 antibody (PB9609). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Mouse Lung tissue lysates,
Lane 2: Mouse Intestine 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 (PB9609) 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.

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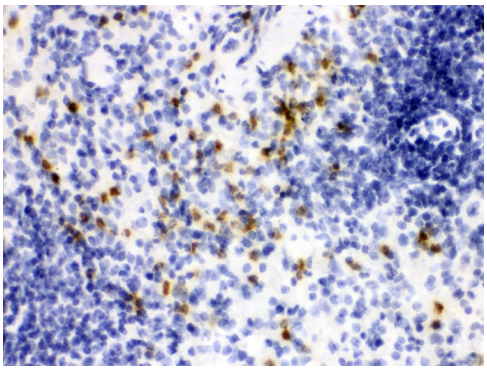
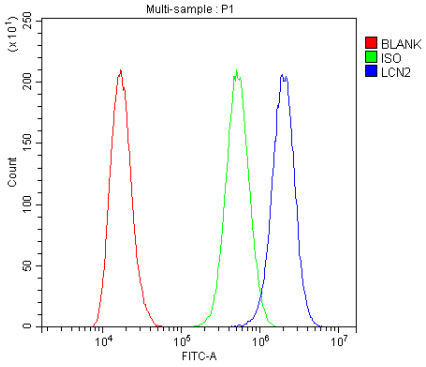


IHC analysis of Lipocalin-2/NGAL/LCN2 using anti-Lipocalin-2/NGAL/LCN2 antibody (PB9609).
Lipocalin-2/NGAL/LCN2 was detected in a paraffin-embedded section of mouse spleen tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Lipocalin-2/NGAL/LCN2 Antibody (PB9609) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of A431 cells using anti-Lipocalin 2 antibody (PB9609).
Overlay histogram showing A431 cells stained with PB9609 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Lipocalin 2 Antibody (PB9609, 1:100) for 30 min at 20°C. DyLight488 conjugated goat anti-rabbit IgG (BA1127, 1:100) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1:100) used under the same conditions. Unlabelled sample (Red line) was also used as a control.