

For Research Use Only

Lipocalin-2/NGAL Recombinant antibody

Catalog Number: 83102-1-RR



Basic Information

| | | |
|--|---|---|
| Catalog Number: 83102-1-RR | GenBank Accession Number: NM_008491.1 | Purification Method: Protein A purification |
| Size: 100ul , Concentration: 1000 ug/ml by Nanodrop; | GeneID (NCBI): 16819 | CloneNo.: 230372D6 |
| Source: Rabbit | UNIPROT ID: P11672 | Recommended Dilutions: WB 1:2000-1:10000 IHC 1:200-1:800 |
| Isotype: IgG | Full Name: lipocalin 2 | |
| | Calculated MW: 23KD | |
| | Observed MW: 25 kDa | |

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse lung tissue, mouse uterus tissue

IHC : mouse spleen tissue, mouse lung tissue

Background Information

Neutrophil gelatinase-associated lipocalin (NGAL, also known as lipocalin-2, siderocalin, or LCN2) is a small molecule of almost 25 kDa that belongs to the well-defined superfamily of proteins called lipocalins. NGAL was initially found in activated neutrophils, under its role as an innate antibacterial factor. However, it subsequently was shown that many other types of cells, including in the kidney tubule, may produce NGAL in response to various injuries. NGAL may become one of the most promising next-generation biomarkers in clinical nephrology and beyond. This antibody recognizes mouse Lipocalin-2/NGAL.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

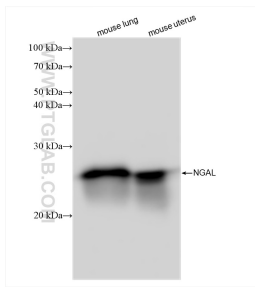
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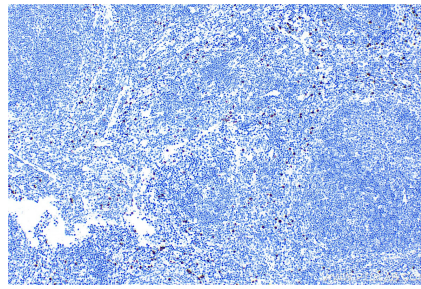
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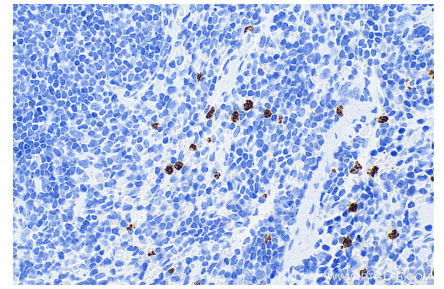
Selected Validation Data



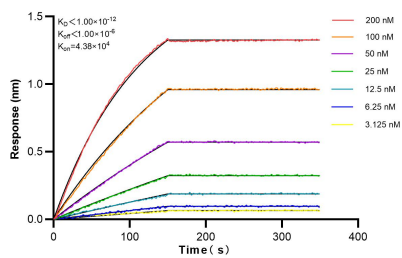
Various lysates were subjected to SDS PAGE followed by western blot with 83102-1-RR (Lipocalin-2/Ngal antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83102-1-RR (Lipocalin-2/Ngal antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83102-1-RR (Lipocalin-2/Ngal antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83102-1-RR against Mouse Lipocalin-2/Ngal were performed. The affinity constant is below 1 pM.