

For Research Use Only

Rat Lipocalin-2/NGAL Recombinant antibody, PBS Only (Capture)

Catalog Number: 83853-2-PBS



Basic Information

Catalog Number: 83853-2-PBS	GenBank Accession Number: GeneID (NCBI): 170496	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	UNIPROT ID: P30152	CloneNo.: 240792C12
Source: Rabbit	Full Name: lipocalin 2	
Isotype: IgG	Calculated MW: 22kDa	
	Observed MW: 22-25 kDa	

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Indirect ELISA

Species Specificity:
mouse, rat

Product Information

83853-2-PBS targets Lipocalin-2/NGAL as part of a matched antibody pair.

MP00790-3: 83853-2-PBS capture and 83853-3-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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 was subsequently shown that many other types of cells, including those 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 rat Lipocalin-2/Ngal.

Storage

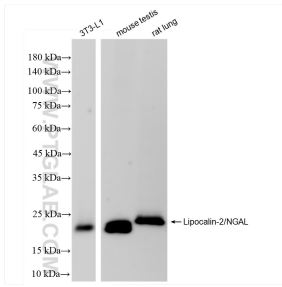
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

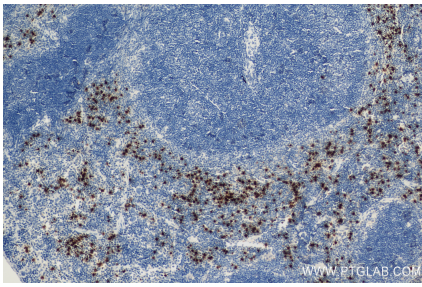
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

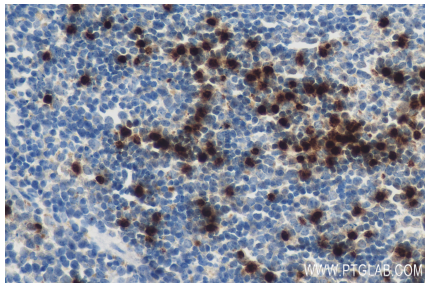
Selected Validation Data



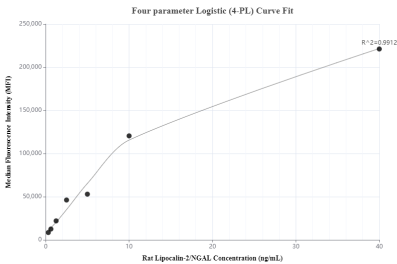
Various lysates were subjected to SDS PAGE followed by western blot with 83853-2-RR (Lipocalin-2/NGAL antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83853-2-PBS in a different storage buffer formulation.



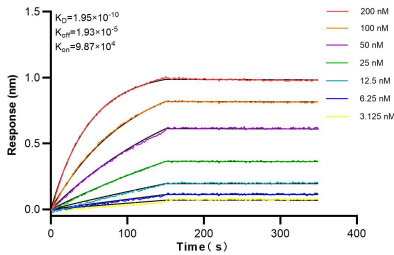
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83853-2-RR (Lipocalin-2/Ngal antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83853-2-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83853-2-RR (Lipocalin-2/Ngal antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83853-2-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00790-3, RAT Lipocalin-2/NGAL Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83853-2-PBS. Detection antibody: 83853-3-PBS. Standard: Eg1022. Range: 0.313-40 ng/mL



Biolayer interferometry (BLI) kinetic assays of 83853-2-RR against Rat Lipocalin-2/Ngal were performed. The affinity constant is 0.195 nM.