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Datasheet for ABIN7161512
anti-Lipocalin 2 antibody

3 Images

Overview

Quantity:	100 µg
Target:	Lipocalin 2 (LCN2)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Lipocalin 2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human Neutrophil gelatinase-associated lipocalin protein
Clone:	1A1B2
Isotype:	IgG2b
Cross-Reactivity:	Human, Mouse
Purification:	Protein G purified

Target Details

Target:	Lipocalin 2 (LCN2)
Alternative Name:	LCN2 (LCN2 Products)
Background:	Background: Iron-trafficking protein involved in multiple processes such as apoptosis, innate immunity and renal development. Binds iron through association with 2,5-dihydroxybenzoic

Target Details

acid (2,5-DHBA), a siderophore that shares structural similarities with bacterial enterobactin, and delivers or removes iron from the cell, depending on the context. Iron-bound form (holo-24p3) is internalized following binding to the SLC22A17 (24p3R) receptor, leading to release of iron and subsequent increase of intracellular iron concentration. In contrast, association of the iron-free form (apo-24p3) with the SLC22A17 (24p3R) receptor is followed by association with an intracellular siderophore, iron chelation and iron transfer to the extracellular medium, thereby reducing intracellular iron concentration. Involved in apoptosis due to interleukin-3 (IL3) deprivation: iron-loaded form increases intracellular iron concentration without promoting apoptosis, while iron-free form decreases intracellular iron levels, inducing expression of the proapoptotic protein BCL2L11/BIM, resulting in apoptosis. Involved in innate immunity, possibly by sequestering iron, leading to limit bacterial growth.

Aliases: 25 kDa alpha-2-microglobulin-related subunit of MMP-9, Lipocalin-2, Oncogene 24p3, p25, LCN2, HNL, NGAL

UniProt: [P80188](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#), [Transition Metal Ion Homeostasis](#)

Application Details

Application Notes: Recommended dilution:WB:1:500-1:5000,IHC:1:50-1:500,

Restrictions: For Research Use only

Handling

Format: Liquid

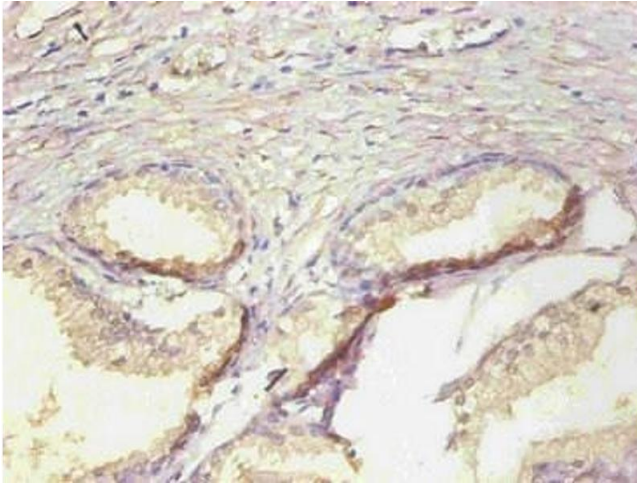
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

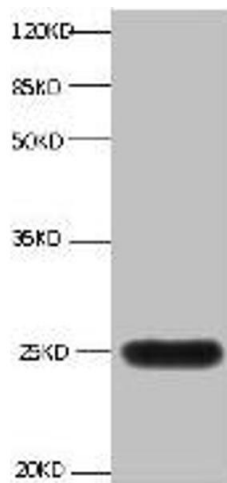
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



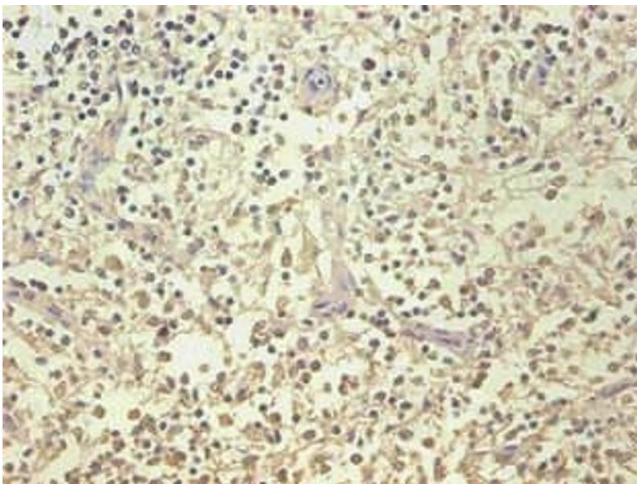
Immunohistochemistry

Image 1. Immunohistochemical of paraffin-embedded human prostate tissue using ABIN7161512 at dilution of 1:200



Western Blotting

Image 2. All lanes: Mouse anti-human Neutrophil gelatinase-associated lipocalin monoclonal antibody at 1 µg/mL Lane 1: NGAL transfected 293 cell lysate Predicted band size : 22 kDa Observed band size : 25 kDa



Immunohistochemistry

Image 3. Immunohistochemical of paraffin-embedded human spleen organization using ABIN7161512 at dilution of 1:200