

Datasheet for ABIN6943928
anti-Lipocalin 2 antibody



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Overview

Quantity:	100 µL
Target:	Lipocalin 2 (LCN2)
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc))

Product Details

Immunogen:	N terminal human Lipocalin-2
Clone:	5C9
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Purified by Protein A.

Target Details

Target:	Lipocalin 2 (LCN2)
Alternative Name:	Lipocalin-2 (LCN2 Products)
Background:	Synonyms: Neutrophil gelatinase-associated lipocalin, 25 kDa alpha-2-microglobulin-related subunit of MMP-9, Lipocalin-2, NGAL, LCN2 Background: Iron-trafficking protein involved in multiple processes such as apoptosis, innate

Target Details

immunity and renal development. Binds iron through association with 2,5-dihydroxybenzoic 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.

Gene ID: 3934

UniProt: [P80188](#)

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

Application Details

Application Notes: WB 1:300-5000
IHC-P 1:200-400
IF(ICC) 1:50-200
IHC()

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 1xTBS (pH 7.4), 1 % BSA, 40 %Glycerol and 0.05 % Sodium Azide.

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

Handling

Storage Comment:	Store at -20°C for 12 months.
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Expiry Date:	12 months
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