

## LCN2 antibody

Catalog No: #38356

Package Size: #38356-1 50ul #38356-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

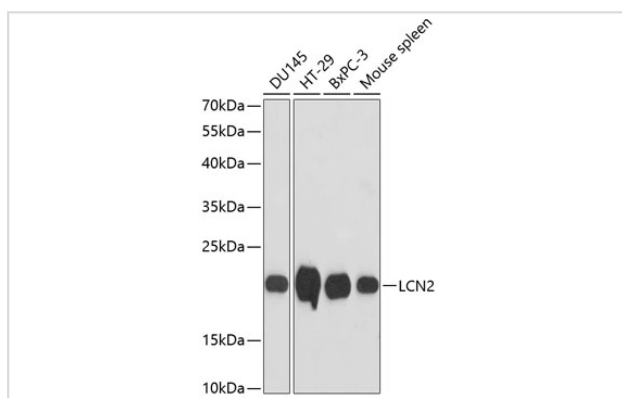
## Description

Product Name	LCN2 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IF
Species Reactivity	Human,Mouse
Specificity	The antibody detects endogenous level of total LCN2 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human LCN2.
Target Name	LCN2
Other Names	LCN2; 24p3; MSFI; NGAL; Lipocalin-2;
Accession No.	Swiss-Prot#: P80188NCBI Gene ID: 3934
SDS-PAGE MW	23kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

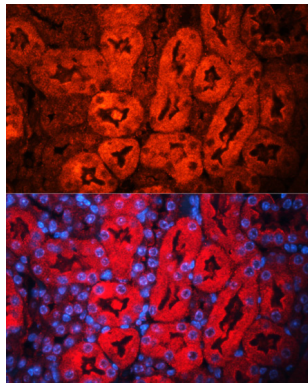
## Application Details

WB □ 1:500 - 1:2000IF □ 1:50 - 1:200

## Images



Western blot analysis of extracts of various cell lines, using LCN2 antibody at 1:3000 dilution.



Immunofluorescence analysis of mouse kidney using LCN2 antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

## Background

Lipocalin-2, a member of the lipocalin family of proteins, was originally identified as a gelatinase-associated component of neutrophil secretory granules (1). Lipocalin-2 is involved in innate immunity, iron homeostasis, and apoptosis. Lipocalin-2 limits bacterial growth by binding to bacterial siderophores and sequestering iron (2-4). In mammalian cells, iron-loaded lipocalin-2 binds to its receptor, 24p3R, and is internalized, thereby releasing iron and increasing the intracellular iron concentration (5). Conversely, iron-free lipocalin-2 promotes apoptosis (5). Lipocalin-2 is also expressed in adipose tissue and promotes insulin resistance in cultured mouse adipocytes (6).

## Published Papers

el at., Lipocalin 2 induces visual impairment by promoting ferroptosis in retinal ischemia-reperfusion injury. *In Ann Transl Med* 2023 Jan 15 by Tingfang Mei, Jinwen Wu et al.. PMID:36760251, , (2023)

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.