Product Datasheet

LCN2 antibody

Catalog No: #38617

Package Size: #38617-1 50ul #38617-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

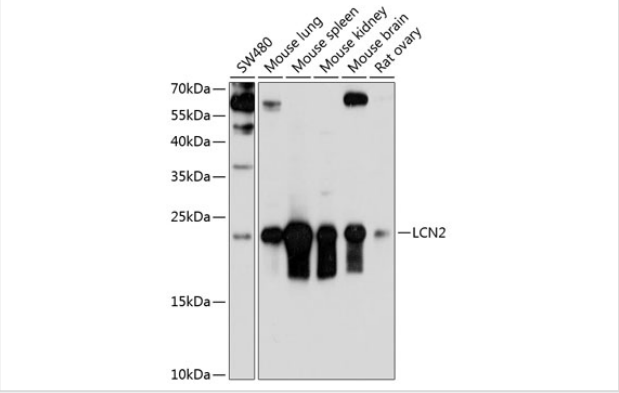
Description

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,Rat
Specificity	The antibody detects endogenous level of total LCN2 protein.
Immunogen Type	Peptide
Immunogen Description	A synthetic peptide of human LCN2.
Target Name	LCN2
Other Names	24p3; MSFI; NGAL
Accession No.	Swiss-Prot#: P80188NCBI Gene ID: 3934
Uniprot	P80188
GeneID	3934;
SDS-PAGE MW	23kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

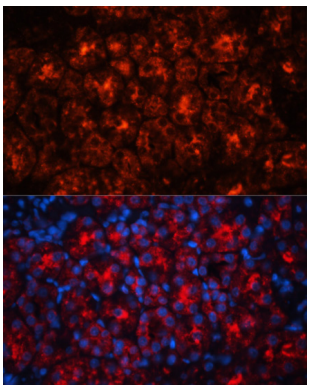
Application Details

WB□1:500 - 1:2000IF□1:50 - 1:200

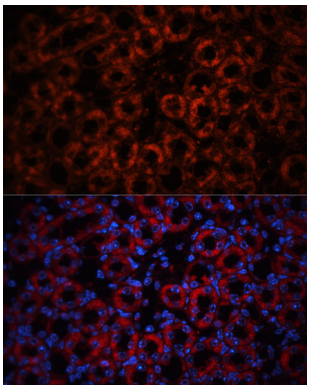
Images



Western blot analysis of extracts of mouse testis, using LCN2 at 1:1000 dilution.



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



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

Background

Iron-trafficking protein involved in multiple processes such as apoptosis, innate 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.

Note: This product is for in vitro research use only