

LCN2 antibody

Catalog No: #38356

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

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

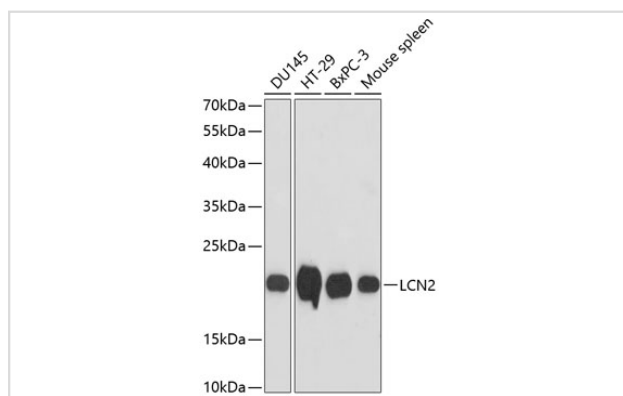
Description

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.
Conjugates	Unconjugated
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 ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

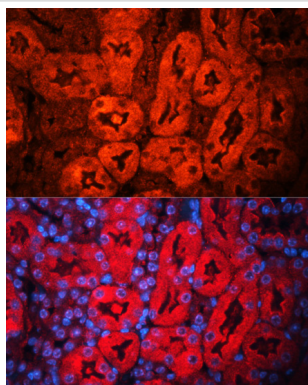
Application Details

WB □ 1:500 - 1:2000 IF □ 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 on 2023 Jan 15 by Tingfang Mei, Jinwen Wu, et al..PMID:36760251, , (2022)

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