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LCN2

Reactivity: Human Mouse Rat

Tested applications:WB IHC IF

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:10 - 1:100

Calculated MW:23kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human LCN2

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

LCN2; 24p3; MSFI; NGAL; Lipocalin-2;

Catalog #:A2092

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:3934

Isotype: IgG

Swiss Prot:P80188

Purity: Affinity purification

For research use only.

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).

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