A Reliable Research Partner in Life Science and Medicine

Lipocalin-2/NGAL Polyclonal Antibody(Capture/Detector)

catalog number: AN000090P

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Human

Immunogen Recombinant Human Lipocalin-2/NGAL protein expressed by E.coli

Host Rabbit
Isotype Rabbit IgG

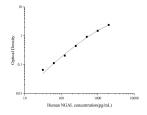
Purification Antigen Affinity Purification

Buffer Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.

Applications Recommended Dilution

ELISA Capture 2-8 μg/mL **ELISA Detector** 0.1-0.4 μg/mL

Data



Sandwich ELISA-Recombinant Human Lipocalin-2/NGAL protein standard curve.Background subtracted standard curve using Lipocalin-2/NGAL antibody(AN000090P) (Capture),Lipocalin-2/NGAL antibody(AN000090P) (Detector) in sandwich ELISA.The reference range value for Recombinant Human Lipocalin-2/NGAL protein is 31.25-20000 pg/mL.

Preparation & Storage

Storage Storage Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze /

thaw cycles.

Shipping The product is shipped with ice pack, upon receipt, store it immediately at the

temperature recommended.

Background

For Research Use Only

Rev. V1.6

Elabscience Bionovation Inc.



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Iron-trafficking protein involved in multiple processes such as apoptosis, innate immunity and renal development. Binds iron through association with 2,3-dihydroxybenzoic acid (2,3-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 SIC22A17 (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 SIC22A17 (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 (II3) 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, limits bacterial proliferation by sequestering iron bound to microbial siderophores, such as enterobactin. Can also bind siderophores from M.tuberculosis.

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