NGAL Polyclonal Antibody

Catalog No: #42467

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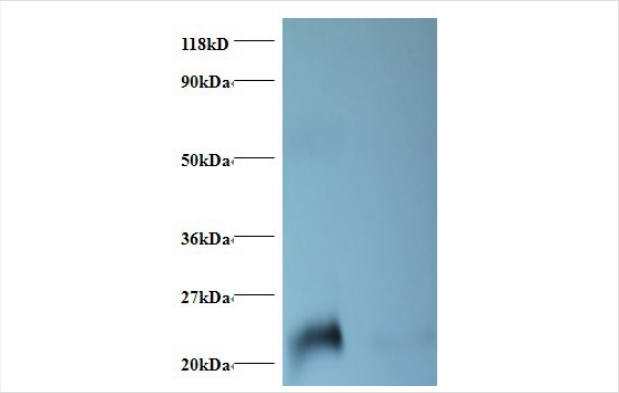
Description

Product Name	NGAL Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total NGAL polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human NGAL protein
Target Name	NGAL
Other Names	LCN2
Accession No.	Swiss-Prot#: P80188
Uniprot	P80188
GeneID	3934;
Calculated MW	22kd
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

Application Details

Western blotting: 1:500 - 1:1000

Images



All lanes : NGAL Antibody at 2ug/ml + positive serum
Lane 1 : positive serum at 1 : 10
Lane 2 : positive serum at 1 : 50
SecondaryGoat polyclonal to Rabbit IgG at 1/15000 dilution
Predicted band size : 22 kDa
Observed band size: 22 kDa

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. Involved in innate immunity, possibly by sequestrating iron, leading to limit bacterial growth.

References

[1] "Molecular cloning and expression of a cDNA encoding NGAL: a lipocalin expressed in human neutrophils."Bundgaard J.R., Sengelov H., Borregaard N., Kjeldsen L.Biochem. Biophys. Res. Commun. 202:1468-1475(1994) [2] "Molecular characterization and patt

Note: This product is for in vitro research use only