Data Sheet (Cat.No.TMAH-00684)

Anti-Lipocalin-2/LCN2 Antibody (5H677)

Product Details

Ig Type:	IgG2b
Reactivity:	Human, Mouse
Conjugation:	Unconjugated
Clone:	5H677
Purification:	Protein G purified

Applications

Verified Activity:	1. Western Blot -All lanes:Mouse anti-human Neutrophil gelatinase-associated lipocalin monoclonal antibody at 1μg/ml -Lane 1:NGAL transfected 293 cell lysate -Predicted band size : 22 kDa -Observed band size : 25 kDa 2. Immunohistochemical of paraffin-embedded human spleen organization using TMAH-00684 at dilution of 1:200 3. Immunohistochemical of paraffin-embedded human prostate tissue using TMAH-00684 at dilution of 1:200
Application:	ELISA, WB, IHC

Properties

Purity:	>95%
Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human Neutrophil gelatinase-associated lipocalin Protein
Antigen Species:	Human
Gene ID:	3934
Uniprot ID:	P80188
Synonyms:	MSFI;p25;Siderocalin LCN2;Oncogene 24p3;Lipocalin-2;NGAL
Biology Area:	Immunology

Research Background

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 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; limits bacterial proliferation by sequestering iron bound to microbial siderophores, such as enterobactin. Can also bind siderophores from M. tuberculosis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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