

ARG40936 anti-Lipocalin 2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Lipocalin 2
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Lipocalin 2
Species	Human
Immunogen	Synthetic peptide within aa. 1-100 of Human Lipocalin 2 (NP_005555.2).
Conjugation	Un-conjugated
Alternate Names	Siderocalin LCN2; Oncogene 24p3; MSFI; 25 kDa alpha-2-microglobulin-related subunit of MMP-9; Lipocalin-2; p25; Neutrophil gelatinase-associated lipocalin; 24p3; NGAL

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:100
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse lung	
Observed Size	~ 23 kDa	

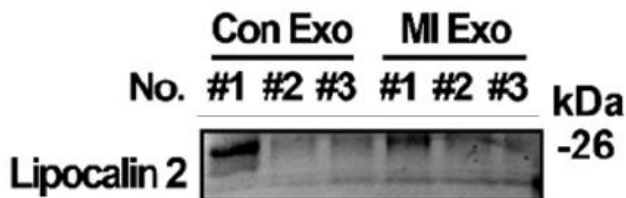
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	LCN2
Gene Full Name	lipocalin 2
Background	This gene encodes a protein that belongs to the lipocalin family. Members of this family transport small hydrophobic molecules such as lipids, steroid hormones and retinoids. The protein encoded by this gene is a neutrophil gelatinase-associated lipocalin and plays a role in innate immunity by limiting bacterial growth as a result of sequestering iron-containing siderophores. The presence of this protein in blood and urine is an early biomarker of acute kidney injury. This protein is thought to be involved in multiple cellular processes, including maintenance of skin homeostasis, and suppression of invasiveness and metastasis. Mice lacking this gene are more susceptible to bacterial infection than wild type mice. [provided by RefSeq, Sep 2015]
Function	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 sequestering iron, leading to limit bacterial growth. [UniProt]
Calculated Mw	23 kDa
Cellular Localization	Secreted. Note=Upon binding to the SLC22A17 (24p3R) receptor, it is internalized. [UniProt]

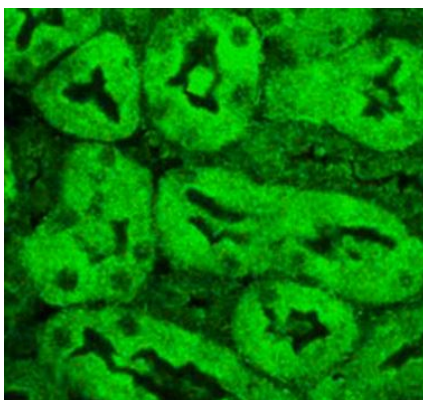
Images



ARG40936 anti-Lipocalin 2 antibody WB image

Western blot: Mouse kidney stained with ARG40936 anti-Lipocalin 2 antibody.

From Gao L et al. Theranostics- (2020), [doi: 10.7150/thno.37678](https://doi.org/10.7150/thno.37678), Fig. 6. B.

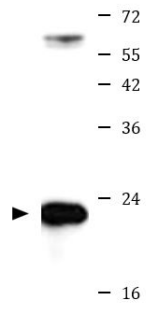


ARG40936 anti-Lipocalin 2 antibody ICC/IF image

Immunofluorescence: Mouse kidney cells stained with ARG40936 anti-Lipocalin 2 antibody at 1:100 dilution.

ARG40936 anti-Lipocalin 2 antibody WB image

Western blot: 25 µg of Mouse lung lysate stained with ARG40936 anti-Lipocalin 2 antibody at 1:1000 dilution.



Mouse lung