

## LCN2 Ab

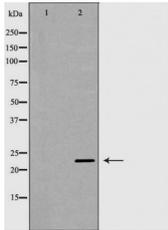
Cat.#: DF7232  
Size: 100ul,200ul

Concn.: 1mg/ml  
Source: Rabbit

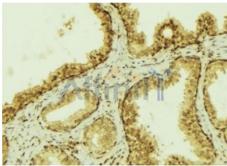
Mol.Wt.: 23kDa  
Clonality: Polyclonal

Application:	WB 1:500-1:2000 IHC 1:50-1:200
Reactivity:	Human,Mouse,Rat
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).
Specificity:	LCN2 Ab detects endogenous levels of total LCN2.
Immunogen:	A synthetic peptide of humanLCN2.
Uniprot:	P80188
Description:	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.
Subcellular Location:	Secreted. Upon binding to the SLC22A17 (24p3R) receptor, it is internalized.
Tissue Specificity:	Expressed in bone marrow and in tissues that are prone to exposure to microorganism. High expression is found in bone marrow as well as in uterus, prostate, salivary gland, stomach, appendix, colon, trachea and lung. Not found in the small intestine or peripheral blood leukocytes.
Similarity:	Belongs to the calycin superfamily. Lipocalin family.
Storage Condition and	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM

**Buffer:** NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.



Western blot analysis of extracts from mouse liver cancer tissue lysates, using LCN2 Ab. The lane on the left was treated with the antigen-specific peptide.



DF7232 at 1/100 staining Mouse colon tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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