

NGAL rabbit pAb

Catalog No :	YT7910
Reactivity :	Human;Rat;Mouse;
Applications :	WB;ELISA
Target :	NGAL
Fields :	>>IL-17 signaling pathway
Gene Name :	LCN2 HNL NGAL
Protein Name :	NGAL
Human Swiss Prot No :	P80188
Immunogen :	Synthesized peptide derived from human NGAL
Specificity :	This antibody detects endogenous levels of Human NGAL
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:1000-2000 ELISA 1:5000-20000
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	22kD
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 :

function:Transport of small lipophilic substances .,similarity:Belongs to the calycin superfamily. Lipocalin family.,subunit:Forms a covalently linked, disulfide-bridged heterodimer with the 92 kDa type V collagenase (MMP-9).,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 lungs. Not found in the small intestine or peripheral blood leukocytes.,

Subcellular Location :

Secreted . Cytoplasmic granule lumen . Cytoplasmic vesicle lumen . Upon binding to the SLC22A17 (24p3R) receptor, it is internalized (By similarity). Releases the bound iron in the acidic lumen of cytoplasmic vesicles (PubMed:12453413, PubMed:20581821). .

Expression :

Detected in neutrophils (at protein level) (PubMed:7683678, PubMed:8298140). 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.

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