Recombinant Human Lipocalin-2/NGAL/LCN2 Protein

Catalog No.: RP01823

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Sequence Information

Species
Human

Gene ID
3934

Swiss Prot
P80188

Tags
C-hFC

Synonyms
p25; 24p3; MSFI; NGAL;Lipocalin-2;LCN2

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
46.51 kDa

Observed MW
55-60 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifμge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Lipocalin-2 (LCN2), also known as neutrophil gelatinase-associated lipocalin (NGAL), is a 25 kDa protein belonging to the lipocalin superfamily. Members of this family transport small hydrophobic molecules such as lipids, steroid hormones and retinoids. The protein 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 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.

Basic Information

Description
Recombinant Human Lipocalin-2/NGAL/LCN2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln21-Gly198) of human Lipocalin-2/NGAL/LCN2 (Accession #NP_005555.2) fused with a hFc tag at the C-terminus.

Activity
1、Measured by its ability to bind Iron(III) dihydroxybenzoic acid [Fe(DHBA)3]. The binding of Fe(DHBA)3 results in the quenching of Trp fluorescence in recombinant mouse Lipocalin-2. Recombinant human Lipocalin-2 can bind >2.84 μM of Fe(DHBA)3.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

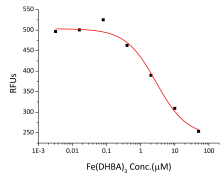
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

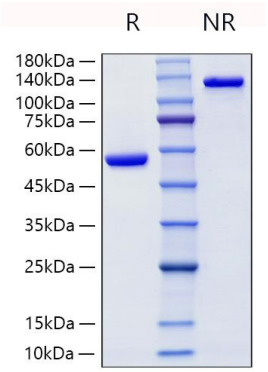
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Measured by its ability to bind Iron(III) dihydroxybenzoic acid [Fe(DHBA)3]. The binding of Fe(DHBA)3 results in the quenching of Trp fluorescence in recombinant mouse Lipocalin-2. Recombinant human Lipocalin-2 can bind >2.84 μM of Fe(DHBA)3.



Recombinant Human Lipocalin-2/NGAL/LCN2 Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.