

Biotinylated Human ULBP-2 Protein

Cat. No. ULB-HM402B

Description

| | |
|-------------------------|---|
| Source | Recombinant Biotinylated Human ULBP-2 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly26-Ser217. |
| Accession | Q9BZM5 |
| Molecular Weight | The protein has a predicted MW of 24.6 kDa. Due to glycosylation, the protein migrates to 30-40 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1EU per μg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

Formulation and Storage

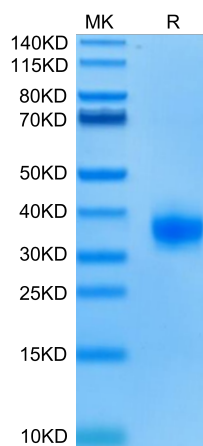
| | |
|-----------------------|---|
| Formulation | Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

Background

ULBP2 expression was however linked to expression of mature CD57(+) NK cells. In particular, expression of ULBP2 was strongest on those NK cells that had evidence of recent activation and proliferation. We suggest that ULBP2 could be used to identify recently activated "mature" NK cells.

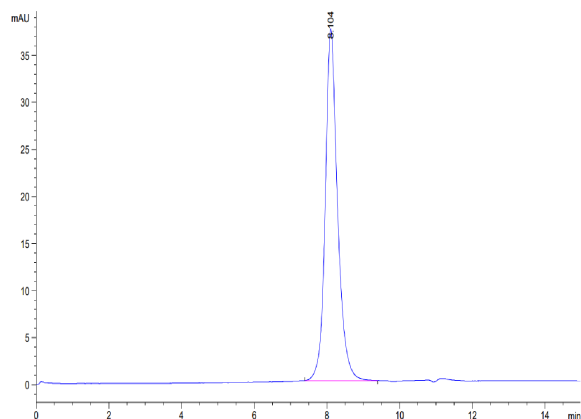
Assay Data

Bis-Tris PAGE



Biotinylated Human ULBP-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



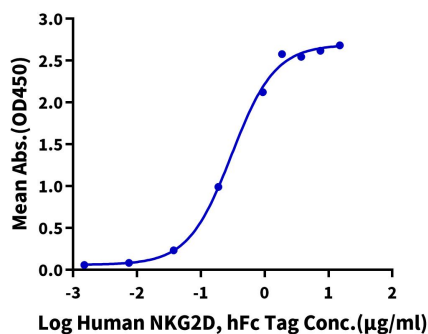
The purity of Biotinylated Human ULBP-2 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Biotinylated Human ULBP-2, His-Avi Tag ELISA

0.2µg Biotinylated Human ULBP-2, His-Avi Tag Per Well

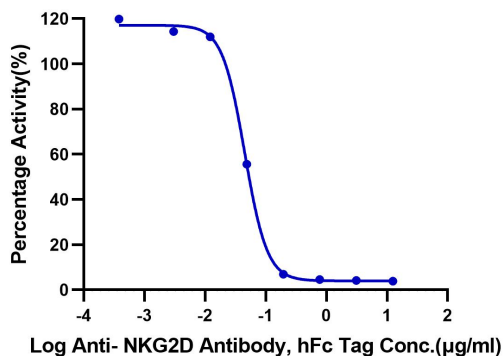


Immobilized Biotinylated Human ULBP-2, His-Avi Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human NKG2D, hFc Tag with the EC50 of 0.30µg/ml determined by ELISA (QC Test).

Blocking Data

Inhibition of Human NKG2D and ULBP-2 Binding

0.5µg Human NKG2D, hFc Tag Per Well



Serial dilutions of Anti-NKG2D Antibody, hFc Tag were added into Biotinylated Human ULBP-2, His Tag : Human NKG2D, hFc Tag binding reactions. The half maximal inhibitory concentration (IC50) is 45.2ng/ml.