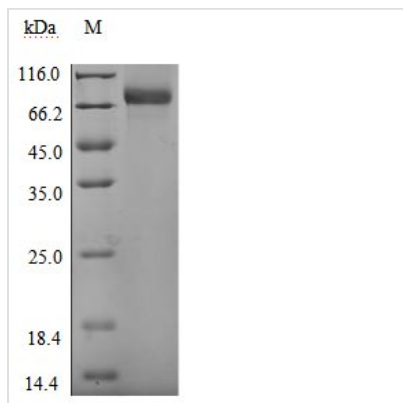


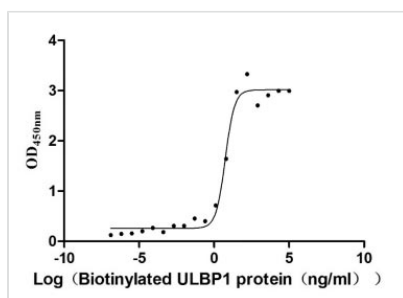


Recombinant Human UL16-binding protein 1 (ULBP1), Biotinylated (Active)

Product Code	CSB-MP887177HUj1-B
Abbreviation	Recombinant Human ULBP1 protein, Biotinylated (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9BZM6
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered PBS, 6% Trehalose, pH 7.4
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized KLRK1 (CSB-MP012474HU1) at 10 µg/ml can bind human Biotinylated ULBP1, the EC ₅₀ is 4.254-7.295 ng/ml.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	GWVDTHCLCYDFIITPKSRPEPQWCEVQGLVDERPFLHYDCVNHKAKAFASL GKKVNVTKTWEEQTETLRDVVDLKGQLLDIQVENLIPIEPLTLQARMSCEHEA HGHGRGSWQFLFNGQKFLFDSSNNRKWTALHPGAKKMTEKWEKNRDVTMF FQKISLGDCKMWLEEFLLMYWEQMLDPTKPPSLAPG
Source	Mammalian cell
Target Names	ULBP1
Expression Region	26-216aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal mFc-Avi-tagged
Mol. Weight	51.3 kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity
Measured by its binding ability in a functional ELISA. Immobilized KLRK1 (CSB-MP012474HU1) at 10 µg/ml can bind human Biotinylated ULBP1, the EC₅₀ is 4.254-7.295 ng/ml.

Description

The recombinant human ULBP1 protein is a biotinylated protein with relatively high bioactivity. It is produced in mammalian cells and fused with an mFc-Avi-tag at the C-terminus. Its expression region corresponds to amino acid residues 26-216 of the human ULBP1 protein. The purity of this ULBP1 protein is measured by SDS-PAGE and reaches up to 95%. On the gel, it has an apparent molecular mass of 67 kDa due to glycosylation. It contains low levels of endotoxin, less than 1.0 EU/ug determined by the LAL method. In the functional ELISA, this biotinylated ULBP1 can bind to the KLRK1, with EC₅₀ of 4.254-7.295 ng/ml. This biotinylated ULBP1 could be used to isolate ULBP1 antibodies from samples for subsequent analyses with high sensitivity. And it is available now.

ULBP1 is a stress-induced ligand for the activatory receptor NKG2D. It is found as a cell-surface protein on some malignant cells including human hepatocellular carcinomas. Upregulation of ULBP1 is detected during HCMV infection.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.