

Recombinant Human NKG2D ligand 3/ULBP3 Protein

Catalog No.: RP00240

Sequence Information

Species	Gene ID
Human	79465
Swiss Prot	Tags
Q9BZM4	C-hFc&His
Synonyms	
ULBP3	

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
49.03 kDa	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. Contact us for customized product form or formulation.

Reconstitution
Centrifuge 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

ULBP-3 is a member of a family of cell-surface proteins that function as ligands for human NKG2D. ULBP-3 has also been described under the names RaeT1N (retinoic acid early transcript), NKG2DL3, and ALCAN-gamma. The name ULBP-3 derives from the original identification of three proteins, ULBP-1, -2, and -3, as ligands for the human cytomegalovirus glycoprotein UL16; they were designated UL16 binding proteins (ULBP). The gene for ULBP-3 resides in a cluster of ten related genes, six of which encode potentially functional glycoproteins. Amino acid sequence identity within this family ranges from 30-60%. These proteins are distantly related to MHC class I proteins, but they possess only the alpha 1 and alpha 2 Ig-like domains, and they have no capacity to bind peptide or interact with beta 2-microglobulin. Some family members, including ULBP-3, are anchored to the membrane via a GPI-linkage, whereas others have transmembrane domains.

Basic Information

Description

Recombinant Human NKG2D ligand 3/ULBP3 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gly27-Pro216) of human ULBP-3 (Accession #NP_078794) fused with an Fc, 6×His tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Human ULBP3 (Catalog: RP00240) Protein at 2 μg/mL (100 μL/well) can bind NKG2D-raFc (Catalog: RP01530) with a linear range of 9.8-2009.2 ng/mL.

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°C

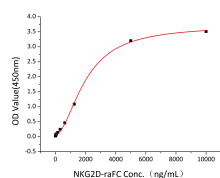
Operational Notes

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

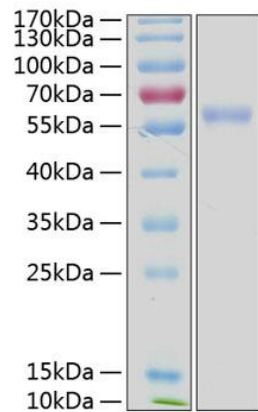
Contact

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

Validation Data



Immobilized Human ULBP3 (Catalog: RP00240) Protein at 2 µg/mL (100 µL/well) can bind NKG2D-raFc (Catalog: RP01530) with a linear range of 9.8–2009.2 ng/mL.



Recombinant Human NKG2D ligand 3/ULBP3 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.