9051 Mira Mesa Blvd, #910094
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ULBP4 Human

UL16 Binding Protein 4 Human Recombinant
RCP2513

Product Overview

Name	ULBP4 Human
Description	
UL16 Binding Protein 4 Human Recombinant	
Accession (Primary)	Q8TD07
Synonyms	
Retinoic Acid Early Transcript 1E, Lymphocyte Effector Toxicity Activation Ligand, RAE-1-Like Transcript 4, NKG2DL4, N2DL-4, LETAL, ULBP4, RL-4, NKG2D Ligand 4, BA350J20.7, RAET1E2, N2DL4, RAET1E.	
Introduction	
UL16 Binding Protein 4 (ULBP4) is a member of the RAET1 family, which is comprised of major histocompatibility complex (MHC) class I-related genes located in a cluster on chromosome 6q24.2-q25.3. ULBP4 functions as a ligand for the NKG2D receptor on the surface of NK cells. ULBP4 binding to the receptor induces expansion of anti-tumor cytotoxic lymphocytes. ULBP4 is expressed mainly in the skin, but also in the testis or trachea. ULBP4 is upregulated in different tumors. ULBP4 doesn′t interact with the CMV glycoprotein UL16. ULBP4 is also a ligand for the KLRK1 receptor. ULBP4 distributes activating signals to NK cells and stimulates tumor immune surveillance by inducing the expansion of anti-tumor cytotoxic lymphocytes.	
Source	
Escherichia Coli.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
ULBP4 was filtered (0.4 µm) and lyophilized in 0.05M Acetate buffer pH 4.0, 1% (w/v) Sucrose and 4% (w/v) Mannitol.	
Stability	
Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.	
Purity	
Greater than 85.0% as determined by SDS-PAGE.	
Amino acid sequence	

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MKHHHHHHAS HSLCFNFTIK SLSRPGQPWC EAQVFLNKNL FLQYNSDNNM VKPLGLLGKK VYATSTWGEL TQTLGEVGRD LRMLLCDIKP QIKTSDPSTL QVEMFCQREA ERCTGASWQF ATNGEKSLLF DAMNMTWTVI NHEASKIKET WKKDRGLEKY FRKLSKGDCD HWLREFLGHW EAMPEPTGRR ST.

Solubility

It is recommended to add 0.1M acetate buffer pH 4.0 to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 µg/ml. In higher concentrations the solubility of this antigen is limited. ULBP4 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Precautions

ULBP4 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q8TD07)