

ULBP1/RAET1I Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78535
Synonyms:	ALCAN-beta; NKG2D ligand 1; N2DL-1; NKG2DL1; MULT-1; NKG2DL; AET1I; ULBP1; ULBP-1; ALCAN-β
Species:	Human
Source:	HEK293
Accession:	Q9BZM6 (G26-P215)
Gene ID:	80329
Molecular Weight:	28-35 kDa

PROPERTIES

Biological Activity	Immobilized Human ULBP-1, His Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Human NKG2D, hFc Tag with the EC ₅₀ of 0.81μg/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of 20 mM PB, 0.5M NaCl, 0.1M L-arginine, pH 8.0. Normally 5 % trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	The ULBP1/RAET1I protein plays a crucial role in natural killer cell cytotoxicity by acting as a ligand that binds to and activates the KLRK1/NKG2D receptor. This binding and activation mechanism highlights the significance of ULBP1/RAET1I in mediating the cytotoxic responses of natural killer cells. Moreover, it is noteworthy that ULBP1/RAET1I does not exhibit binding to beta2-microglobulin. This characteristic interaction profile underscores the specificity and selectivity of ULBP1/RAET1I in its engagement with KLRK1/NKG2D, emphasizing its pivotal role in immune responses and its potential as a therapeutic target for modulating natural killer cell activity.
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Caution: Product has not been fully validated for medical applications. For research use only.

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