

## ULBP1/RAET1I Protein, Mouse (HEK293, His)

Cat. No.:	HY-P71415
Synonyms:	ULBP1; RAET1I; NKG2DL1
Species:	Mouse
Source:	HEK293
Accession:	Q8HWA3 (P26-T211)
Gene ID:	77777
Molecular Weight:	30-40 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           P R I E E T A S L C    N I Y K V N R S E S    G Q H S H E V Q G L    L N R Q P L F V Y K            D K K C H A I G A H    R N S M N A T K I C    E K E V D T L K D G    I D I F K G L L L H            I V Q E T N T T G K    P L T L Q A E V C G    Q Y E V D K H F T G    Y A I V S L N G K N            I F R V D T S T G N    W T Q L D H E F E K    F I E M C K E D K V    L A A F L K K T T E            G D C R T W L D E L    M L H W K E H L E P    A G S F S T         </p>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>           UL16 binding protein 1 (Ulbp1) is a membrane ligand of natural killer group 2, member D (NKG2D), an immune system-activating receptor on NK cells and T-cells. Binding of Ulbp1 to NKG2D leads to activation of several signal transduction pathways, including those of JAK2, STAT5, ERK and PI3K/Akt. Ulbp1 is involved in positive regulation of immune response, interferon-gamma production and leukocyte activation. Also, in cytomegalovirus-infected cells, Ulbp1 binds the UL16 glycoprotein and is prevented from activating the immune system<sup>[1][2]</sup>.         </p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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