

## CD1B-B2M Heterodimer Protein, Rhesus Macaque (HEK293, His)

<b>Cat. No.:</b>	HY-P76209
<b>Synonyms:</b>	T-cell surface glycoprotein CD1b; CD1B; Beta-2-microglobulin; B2M
<b>Species:</b>	Rhesus Macaque
<b>Source:</b>	HEK293
<b>Accession:</b>	NP_001139006 (E19-S303)&NP_001040602 (I21-M119)
<b>Gene ID:</b>	718955&712428
<b>Molecular Weight:</b>	Approximately 38-45 & 12 kDa due to the glycosylation.

### PROPERTIES

<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Rhesus Macaque CD1B-B2M Heterodimer at 2 µg/mL (100 µL/well) can bind Anti-CD1B Antibody, The ED <sub>50</sub> for this effect is 1.538 µg/mL .
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, 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>CD1B belongs to Group 1 of the transmembrane glycoprotein CD1 family. The CD1 molecule is expressed on the surface of many different human antigen-presenting cells (DC, monocytes, and some thymus cells). The CD1B protein, as a key antigen-presenting molecule, has shown the ability to bind both self and non-self lipid and glycolipid antigens, thereby facilitating their presentation to T cell receptors on natural killer T cells. This protein forms a heterodimer complex with B2M (beta-2 microglobulin), which plays a crucial role in immune surveillance and response. Its interaction with saponin C further enhances its functional library, helping T cells to recognize and activate the complex process of various antigens. CD1B is a potential prognostic biomarker associated with tumor mutation burden and promotes antitumor immunity in lung adenocarcinoma<sup>[1][2][3]</sup>.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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