

Integrin alpha L beta 2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P700758
Synonyms:	α L β 2; ITGAL&ITGB2; ITGAL; ITGB2
Species:	Mouse
Source:	HEK293
Accession:	P24063-1 (Y24-H1087)&P11835 (Q24-N702)
Gene ID:	/&16414
Molecular Weight:	160-180 kDa(ITGAL) & 90-105 kDa(ITGB2)

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/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	<p>Integrin alpha L beta 2 (ITGAL/ITGB2) serves as a receptor for ICAM1, ICAM2, ICAM3, and ICAM4, and also interacts with the secreted form of ubiquitin-like protein ISG15 through its ITGAL subunit. Additionally, it functions as a receptor for F11R and plays a role in immune processes such as leukocyte-endothelial cell interaction, cytotoxic T-cell-mediated killing, and antibody-dependent killing by granulocytes and monocytes. ITGAL/ITGB2 contributes to natural killer cell cytotoxicity, as well as leukocyte adhesion and transmigration, involving T-cells and neutrophils. Its significance extends to the generation of common lymphoid progenitor cells in bone marrow, indicating a role in lymphopoiesis. Furthermore, in association with ICAM3, ITGAL/ITGB2 contributes to apoptotic neutrophil phagocytosis by macrophages. The heterodimeric structure comprises an alpha subunit (ITGAL) and a beta subunit (ITGB2), with the alpha subunit interacting with THBD. This multifaceted functionality underscores the diverse roles of Integrin alpha L beta 2 in various immune and cellular processes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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