# LILRB3/CD85a Protein, Human (HEK293, His-Avi)

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| **Cat. No.:** | HY-P78484 |
| **Synonyms:** | CD85a; ILT5; ILT-5; LILRB3; LIR3; LIR3CD85A; LIR-3MGC138403; PIRB; HL9 |
| **Species:** | Human |
| **Source:** | HEK293 |
| **Accession:** | O75022 (G24-E443) |
| **Gene ID:** | 102725035 |
| **Molecular Weight:** | 60-72 kDa |

## PROPERTIES

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| **Biological Activity** | Immobilized Human LILRB3, His Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Anti-LILRB3 Antibody, hFc Tag with the $EC_{50}$ of 27.3ng/ml determined by ELISA. |
| **Appearance** | Lyophilized powder. |
| **Formulation** | Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in $ddH_2O$. |
| **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

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| **Background** | LILRB3/CD85a Protein appears to function as a receptor for class I MHC antigens, highlighting its integral role in immune recognition. Activation of LILRB3 is triggered upon coligation with immune receptors like FCGR2B and the B-cell receptor. This activation leads to the down-regulation of antigen-induced B-cell activation through the recruitment of phosphatases to its immunoreceptor tyrosine-based inhibitor motifs (ITIM). The protein further interacts with key signaling molecules including LYN, PTPN6/SHP-1, and PTPN11/SHP-2, emphasizing its involvement in intricate signaling cascades that regulate immune responses. A comprehensive exploration of LILRB3's interactions and its modulation of immune receptor activities could enhance our understanding of its function and potential implications in the fine-tuning of B-cell activation and immune regulation. |

**Caution: Product has not been fully validated for medical applications. For research use only.**

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