

## LILRB3/CD85a Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77064
Synonyms:	Leukocyte immunoglobulin-like receptor subfamily B member 3; LIR-3; ILT-5; CD85a
Species:	Mouse
Source:	HEK293
Accession:	AAC53219 (S25-Y640)
Gene ID:	18733
Molecular Weight:	Approximately 73 kDa

### PROPERTIES

Appearance	Solution
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

### DESCRIPTION

#### 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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