

## 32-8978: Recombinant Mouse LILRB4/CD85k/ILT3 (C-6His)

**Gene :** Lilrb4  
**Gene ID :** 14728  
**Uniprot ID :** Q64281

### Description

Source: Human Cells.  
MW :24.9kD.

Recombinant Mouse Leukocyte Immunoglobulin-like Receptor Subfamily B Member 4 is produced by our Mammalian expression system and the target gene encoding Gly24-Lys238 is expressed with a 6His tag at the C-terminus. Mouse Leukocyte Immunoglobulin-like Receptor Subfamily B Member 4 (LILRB4/CD85k/ILT3) is an approximately transmembrane glycoprotein that negatively regulates immune cell activation. Mouse LILRB4 consists of a 215 amino acid (aa) extracellular domain with two Ig-like domains, a 22 aa transmembrane segment, and a 75 aa cytoplasmic domain with 3 immunoreceptor tyrosine-based inhibitory motifs (ITIM). Within the ECD, mouse LILRB4 shares 45% and 77% aa sequence identity with human and rat LILRB4, respectively. Alternative splicing of mouse LILRB4 generates a potentially soluble isoform that lacks the transmembrane segment. LILRB4 is expressed on dendritic cells (DC), monocytes, macrophages, and vascular endothelial cells (EC). Ligation of LILRB4 triggers ITIM-mediated inhibition of cellactivating signaling, leading to enhanced immune tolerance and reduced allogeneic graft rejection. Soluble LILRB4 induces the differentiation of CD8+ T suppressor cells (Ts) that can inhibit the effector functions of CD4+ Th cells and CD8+ CTL. In turn, CD8+ Ts cells induce LILRB4 up-regulation and a tolerogenic phenotype in monocytes, DC, and EC.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** GHLPKPIIWAEPGSVIAAYTSVITWCQGSWEAQYYHLYKEKSVNPWDTQVPLETRNKAKFNIPSMTTSYAGIYKC  
YYESAAGFSEHSDAMELVMTGAYENPSLSVYPSSNVTSGVSISFSCSSSIVFGRFILIQEGKHGLSWTLDSQHQQA  
NQPSYATFVLDAVTPNHNGTFRCYGYFRNEPQVWSKPSNSLDLMISETKDQSSTPTEDGLETYQKHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/Åµg (1 IEU/Åµg) as determined by LAL test.