

Product datasheet for **TP727088**

Lair1 Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse LAIR1 (C-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Gln22-Tyr141
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Mouse Leukocyte-associated Immunoglobulin-like Receptor 1 is produced by our Mammalian expression system and the target gene encoding Gln22-Tyr141 is expressed with a 6His tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	52855
UniProt ID:	Q8BG84
Summary:	Leukocyte-associated Ig-like receptor-1 (LAIR-1) is an inhibitory receptor of the Ig superfamily that is structurally related to inhibitory members of KIR and ILT/CD85 families. It is expressed on immune cells, including NK cells, T cells, B cells, monocytes, immature neutrophils, dendritic cells and most thymocytes. The 253 amino acid (aa) type I transmembrane (TM) protein contains a 21 aa signal sequence, a 124 aa extracellular domain (ECD), a 20 aa TM domain and a 98 aa cytoplasmic domain. The ECD includes one C2-type Ig-like domain and two potential N-linked glycosylation sites. Tyrosine phosphorylation of two cytoplasmic ITIM motifs results in recruitment of phosphatases and down-regulation of signaling through activating receptors. LAIR1 shows high-affinity binding of collagens that results in inhibition of degranulation in a basophilic leukemia cell line.



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