

For Research Use Only

Recombinant Human CD158K/KIR3DL2 protein (rFc Tag)



Catalog Number: Eg3778

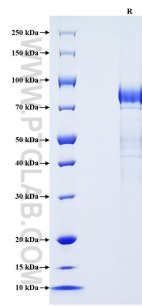
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Human KIR3DL2 protein Leu22-His340 (Accession# P43630-1) with a rabbit IgG Fc tag at the C-terminus. GeneID: 3812 Accession: P43630-1 Predicted Molecular Mass: 61.3 kDa SDS-PAGE: 75-85 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	KIR3DL2, also known as CD158k, is an inhibitory receptor expressed by natural killer (NK) cells and a subset of CD8+ T cells. It plays a role in immune regulation by binding to HLA class I molecules, specifically HLA-A3 and HLA-A11, in a peptide-dependent fashion. KIR3DL2 can also function as an innate immune receptor for delivering CpG DNA to TLR9 in NK cells, highlighting its role in both adaptive and innate immunity. This protein is primarily expressed on the cell surface, particularly in NK cells and certain T cells. It has been implicated in various diseases, particularly in the context of hematological malignancies and autoimmune diseases. Aberrant expression of KIR3DL2 has been observed in neoplastic cells in transformed mycosis fungoides and Sézary syndrome, suggesting its potential as a therapeutic target in primary cutaneous anaplastic large-cell lymphoma (pcALCL).		
References	1. Shaw J. et al. (2012). Front Immunol. 3:339. 2. Battistella M. et al. (2016). Br J Dermatol. 175(2):325-333. 3. Battistella M. et al. (2017). Blood. 130(26):2900-2902. 4. Chan AT. et al. (2005). Arthritis Rheum. 52(11):3586-3595. 5. Hurabielle C. et al. (2018). Br J Dermatol. 179(1):197-199.		
Synonyms	KIR3DL2, CD158K, MHC class I NK cell receptor, NKAT 4, NKAT4		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Human KIR3DL2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.