Datasheet for ABIN5674602

# LILRA3 Protein (AA 24-439) (His tag,AVI tag,Biotin)

1 Image

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## Overview

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| Quantity: | 200 µg |
| Target: | LILRA3 |
| Protein Characteristics: | AA 24-439 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This LILRA3 protein is labelled with His tag,AVI tag,Biotin. |

## Product Details

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| Brand: | PrecisionAvi |
| Sequence: | AA 24-439 |
| Specificity: | Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. |
| Characteristics: | This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag. The protein has a calculated MW of 48.7 kDa. The protein migrates as 65-80 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation. |
| Purity: | >95 % as determined by reduced SDS-PAGE. |
| Endotoxin Level: | Less than 1.0 EU per µg by the LAL method. |

## Target Details

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| Target: | LILRA3 |
| Alternative Name: | LILRA3 (LILRA3 Products) |
| Background: | Leukocyte immunoglobulin-like receptor subfamily A member 3 (LILRA3) is also known as CD85 antigen-like family member E (CD85e), immunoglobulin-like transcript 6 (ILT-6), and leukocyte immunoglobulin-like receptor 4 (LIR-4) is a protein that in humans is encoded by the LILRA3 gene located within the eukocyte receptor complex on chromosome 19q13.4. Unlike many of its family, LILRA3 lacks a transmembrane domain, which contains 4 Ig-like C2-type (immunoglobulin-like) domains. LILRA3 acts as soluble receptor for class I MHC antigens. At the same time,LILRA3 can bind both classical and non-classical HLA class I molecules but with reduced affinities compared to LILRB1 or LILRB2. Also,LILRA3 can bind with high affinity to the surface of monocytes, leading to abolish LPS-induced TNF-alpha production by monocytes. |
| Molecular Weight: | 48.7 kDa |

## Application Details

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| Comment: | Ready-to-use AvitagTM biotinylated protein:<br>The product is exclusively produced using the AvitagTM technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.<br><br>This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled. |
| Restrictions: | For Research Use only |

## Handling

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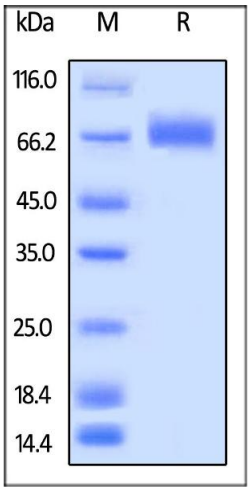
| Format: | Lyophilized |
| Buffer: | PBS, pH 7.4 |
| Handling Advice: | Please avoid repeated freeze-thaw cycles. |
| Storage: | -20 °C |




## SDS-PAGE

**Image 1.** Biotinylated Human LILRA3, His,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95 % .