PRODUCT INFORMATION

Target	CD123
Synonyms	IL3R;IL3RA;IL-3Ra;IL-3R-alpha;IL3RAY;IL3RX;IL3RY;CD123 antigen;CD123;hIL3Ra;hIL-3Ra;MGC34174;IL-3 R alpha
Description	Recombinant human CD123 protein with C-terminal human Fc and 6×His tag
Delivery	In Stock
Uniprot ID	P26951
Expression Host	HEK293
Tag	C-Human Fc and 6×His Tag
Molecular Characterization	CD123(Thr19-Arg305) hFc(Glu99-Ala330) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 80-90 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage & Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	Interleukin 3 receptor alpha (low affinity) (IL3RA), also known as CD123 (Cluster of Differentiation 123) is a 70-kD glycoprotein member of the hematopoietin receptor superfamily. This protein associates with a beta subunit common to the receptors for IL-5 and granulocyte-macrophage colony-stimulating factor (GM-CSF) to form a high-affinity receptor for IL-3. The interleukin-3 receptor a chain (CD123) has been identified as a potential immunotherapeutic target because it is overexpressed in AML compared with normal hematopoietic stem cells
Usage	Research use only

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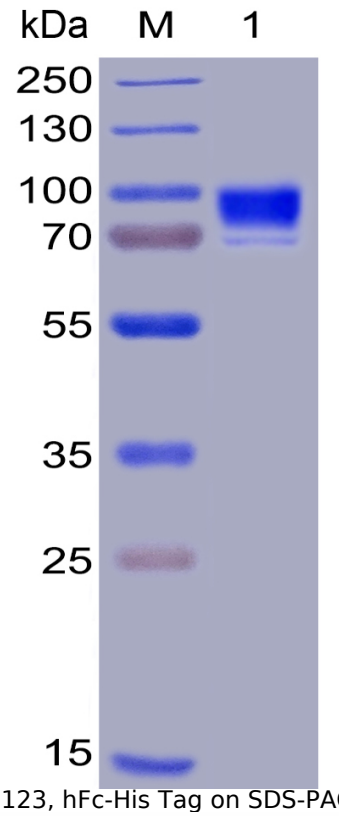

Figure 1. Human CD123, hFc-His Tag on SDS-PAGE under reducing condition.

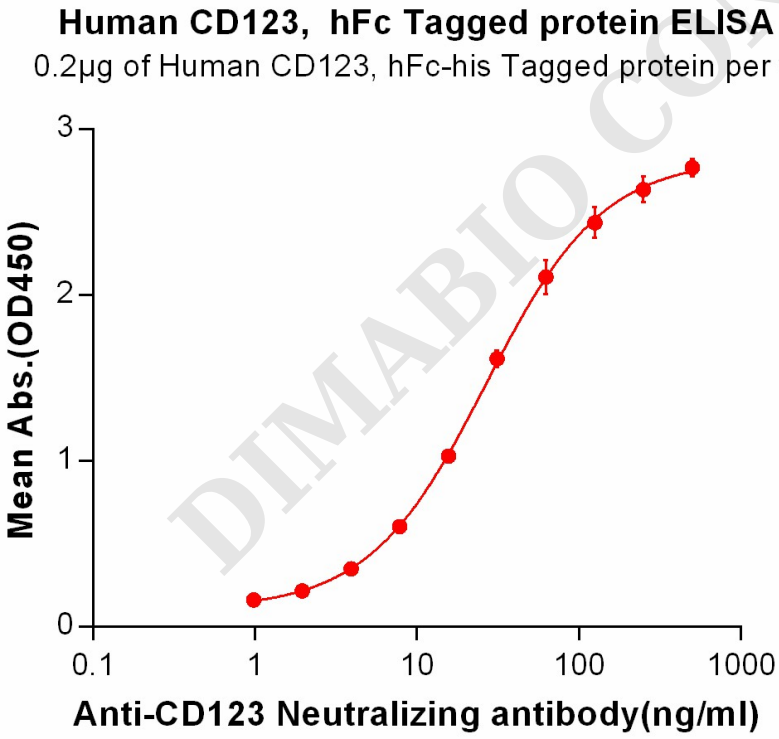

Figure 2. ELISA plate pre-coated by 2 μg/ml (100 μl/well) Human CD123, hFc-His tagged protein (PME100003) can bind Anti-CD123 Neutralizing antibody BME100003 in a linear range of 0.98-26.70 ng/ml.

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