

Product datasheet for TP721249

CD16 (FCGR3A) Human Recombinant Protein

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Recombinant Proteins
Description:	APC Conjugated Human CD16a Protein (C-His, 176V)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	Gly17-Gln208
Tag:	C-His
Predicted MW:	The protein has the predicted molecular weight of 24 kDa and migrates at approximately 40- 50 kDa on SDS-PAGE with DTT-reduced condition before APC conjugation.
Concentration:	25 μ g size is bottled at 0.1mg/mL concentration. 100 μ g size is bottled at lot specific concentration.
Purity:	>90%
Conjugation:	APC
Buffer:	1xPBS buffer, pH7.4, 0.09% NaN3 with a carrier protein
Bioactivity:	Positive
	The definition of the active protein (purified and biotinylated) is defined as the protein that can bind to its biological receptor/ligand. For conjugated protein, it is defined with its function to bind to the ScFv of the active CAR-transfected cells in flow cytometry test.
Preparation:	Affinity Ni-NTA
Applications:	FACS
Storage:	An unopened vial can be stored at 4°C for 2 weeks or at -20°C and below for six months. This stock solution should be aliquoted and stored at ≤ -70°C to minimize the freeze/thaw cycles.
Stability:	6 Months
RefSeq:	<u>NP 001121068</u>
Locus ID:	2214
UniProt ID:	<u>P08637</u>



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	CD16 (FCGR3A) Human Recombinant Protein – TP721249
Summary:	CD16a (FCGR3A) and its homolog CD16b are receptors for the Fc portion of human IgG. In contrast to CD64, which is a high affinity Fc binding protein, both CD16a and CD16b can bind Fc portion of human IgG with relative low affinity. Human CD16a is expressed mainly on natural killer cells, macrophages, T cells, and monocytes. While human CD16b is expressed on Neutrophils and eosinophils. In human cells, a single nucleotide polymorphism (T230A) creates a high binding (176V) and a low binding (176F) variant. Clinically, mutations in CD16a have been linked to vulnerability to viral infections, alloimmune neonatal neutropenia, and systemic lupus erythematosus.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US