

Product datasheet for TP727914

Cynomolgus Recombinant Protein

Product data:

OriGene Technologies, Inc.

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Product Type:	Recombinant Proteins
Description:	Recombinant Cynomolgus CD16a (C-6His)
Species:	Cynomolgus
Expression cDNA Clone or AA Sequence:	Glu21-Gly206
Tag:	C-6His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH7.4.
Note:	Recombinant Cynomolgus Low Affinity Immunoglobulin Gamma Fc Region Receptor III-A is produced by our Mammalian expression system and the target gene encoding Glu21-Gly206 is expressed with a 6His tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Synonyms:	Low Affinity Immunoglobulin Gamma Fc Region Receptor III-A; CD16a Antigen; Fc-Gamma RIII- Alpha; Fc-Gamma RIII; Fc-gamma RIIIa; FcRIII; FcRIIIa; FcR-10; IgG Fc Receptor III-2; CD16a; FCGR3A; CD16A; FCG3; FCGR3; IGFR3



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Summary:

Receptors for the Fc region of immunoglobin G (Fcl³R) are divided into three classes and Fcl³RIII is a multifunctional, low/intermediate affinity receptor. In humans, Fcl³RIII is expressed as two distinct forms (Fcl³RIIIA and Fcl³RIIIB) that are encoded by two different but highly homologous genes in a cell type-specific manner. Fcl³RIIIB is a low-affinity, GPI-linked receptor expressed by neutrophils and eosinophils, whereas Fc³RIIIA is an intermediate affinity polypeptide-anchored transmembrane glycoprotein expressed by a subset of T lymphocytes, natural killer (NK) cells, monocytes, and macrophages. The Fcl³RIIIA receptor is involved in phagocytosis, secretion of enzymes, inflammatory mediators, antibody-dependent cellular cytotoxicity (ADCC), mast cell degranulation, and clearance of immune complexes. Fcî³RIIIA has an immunoreceptor tyrosine-based activation motif (ITAM) in its cytoplasmic domain and delivers an activation signal in the immune responses. Aberrant expression or mutations in this gene is implicated in susceptibility to recurrent viral infections, systemic lupus erythematosus, and alloimmune neonatal neutropenia. In humans, it is a 50 -70 kD type I transmembrane activating receptor. The Fcl³RIIIA cDNA encodes 254 amino acid including a 16aa signal sequence, 191 amino acid ECD with two C2-type Ig-like domains, five potential N-glycosylation sites, a 22 amino acid transmembrane sequence and a 25 amino acid cytoplasmic domain.

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