

Recombinant Monkey CD160 Protein, His-tagged, Alexa Fluor 647 conjugated

Cat. No. CD160-314RAF647 Lot. No. (See product label)

SPECIFICATION

Product Overview Alexa Fluor 647 conjugated recombinant Rhesus CD160 (XP_001089019.1) (Met1-Leu158) was expressed with a polyhistidine tag at the C-terminus.

Species Monkey

Source HEK293

ProteinLength Met1-Leu158, 145

Description

CD160 antigen, also known as Natural killer cell receptor BY55 and CD160, is a cell membrane protein which contains one Ig-like V-type (immunoglobulin-like) domain. CD160 is a GPI-anchored lymph centigradeyte surface receptor in which expression is mostly restricted to the highly cytotoxic CD56(dim)CD16(+) peripheral blood NK subset. CD160 is a receptor showing broad specificity for both classical and non-classical MHC class I molecules. CD160 is expressed in spleen, peripheral blood, and small intestine. Expression of CD160 is restricted to functional NK and T cytotoxic lymph centigradeytes. CD160 acts as a co-activator receptor for CD3-induced proliferation of CD4+ CD160+ T cells isolated from inflammatory skin lesions. Unique CD4+ CD160+ lymph centigradeyte subset may play a role in the pathogenesis of skin inflammation. Activated NK lymph centigradeytes release a soluble form of CD160 that functionally impairs the MHC-I-specific cytotoxic CD8(+) T lymph centigradeyte responsiveness.

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Form	Lyophilized
Molecular Mass	16.3 kDa
N-terminal Sequence Analysis	Gly 25
Endotoxin	< 1.0 EU/ µg of the protein as determined by the LAL method.
Purity	(70+22.5) % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	Alexa Fluor 647

GENE INFORMATION

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Gene Name	CD160 CD160 molecule [<i>Macaca mulatta</i> (Rhesus monkey)]
Official Symbol	CD160
Synonyms	CD160; CD160 molecule; CD160 antigen
Gene ID	696832
mRNA Refseq	XM_015150329
Protein Refseq	XP_015005815

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