

Recombinant Mouse CD4, Tag Free

Information

Gene ID	12504
Accession #	NP-038516.1
Alternate Names	rMuCD4
Source	HEK293
Protein sequence	KTLVLGKEGESAEALPCESSQKKITVFTWKFSDQRKILGQHKGVLIRGGSPSQFDRFDSKKGAWEEKGSFPLIINKLMEDSQTYICELENRKEEVELWVFKVTFSPGTSLLQGQSLTLTLDNSKVSNNPLTECKHKKGKVVSGSKVLSMSNLRVQDSDFWNCTVTLQKKNWFGMTLSVLGFQSTAITAYKSEGESAEFSFPLNFAEENGWGELMWKAEKDSFFQPWISFSIKNKEVSVQKSTKDLKLQLKETLPLTKIPQVSLQFAGSGNLTLDKGTLLHQEVNLVVMKVAQLNNTLTCEVMGPTSPKMRLTLKQENQEARVSEEQKVQVQVAPETGLWQCLLSEGDVKVKMDSRIQVLSRGVNQT
Tag	Tag Free
M.Wt	The protein has a calculated MW of 41.2 KDa.
Appearance	Solution protein.
Stability & Storage	Avoid repeated freeze-thaw cycles. It is recommended that the protein be aliquoted for optimal storage. -2 years from date of receipt, -20 to -70 °C as supplied.
Concentration	1 mg/mL
Formulation	Supplied as a 0.2 µm filtered solution in PBS, pH7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Fully biologically active as determined by the ability of the immobilized protein to support the adhesion of Jurkat human T lymphocyte cells. The EC50 for this effect is 2.9 µg/mL.
Shipping Condition	Shipping with dry ice.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Quality Control

Purity	> 95 % by SDS-PAGE.
Endotoxin	Less than 1.0 EU/µg as determined by LAL method.

Description

In molecular biology, CD4 (cluster of differentiation 4) is a glycoprotein that functions as a co-receptor for the T cell receptor (TCR). CD4 is found on the surface of immune cells such as helper T cells, monocytes, macrophages, and dendritic cells. CD4⁺ helper T cells are a type of white blood cell that is an important component of the human immune system. CD4 is still expressed in most tumors derived from helper T cells. Therefore, most peripheral T-cell lymphomas and associated malignancies can be identified by CD4 immunohistochemistry of tissue biopsy samples. This antigen has also been associated with a variety of autoimmune diseases, such as vitiligo and type 1 diabetes. T cells also play an important role in autoinflammatory diseases. It is helpful to quantify the number of T cells in fresh frozen tissue using CD4⁺, CD8⁺, and CD3⁺ T cell markers when testing drug efficacy or studying disease.



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