

# Recombinant Human CD6 Molecule, His-tagged

**Cat. No.** CD6-4759H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | CD6 was fused with a C-terminal 6 His tag and has a calculated MW of 68.2 KDa expressed. Protein migrates as 110 kDa in reduced SDS-PAGE resulting from glycosylation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | CD6 (Cluster of Differentiation 6) is a cell surface glycoprotein that is involved in T cell activation and a member of the scavenger receptor cysteine rich protein superfamily (SRCRSF). CD6 is expressed at low levels on immature thymocytes and at high levels on mature thymocytes. CD6 appears to play a role as both a costimulatory molecule in T cell activation and as an adhesion receptor. Studies demonstrating a mitogenic effect for T cells with some CD6 specific monoclonal antibodies, in conjunction with either accessory cells or PMA and antiCD2 mAb, support the concept of CD6 as a co stimulatory molecule. |
| <b>Form</b>             | Bulk protein in a 0.22 µm filtered solution of PBS, pH7.4 and delivered as liquid formulation or lyophilized powder. Normally 5-8% trehalose and mannitol are added as protectants before lyophilization.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | >95% as determined by SDS-PAGE. All lots are greater than 95% pure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Endotoxin</b>        | Less than 1.0 EU per 1 µg of the rhCD6 by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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**Storage** Store at -80°C upon received. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** CD6 CD6 molecule [ Homo sapiens ]

**Official Symbol** CD6

**Synonyms** CD6; CD6 molecule; TP120; FLJ44171; CD6 antigen; T-cell differentiation antigen  
CD6; T12; OTTHUMP00000236965; OTTHUMP00000236967;  
OTTHUMP00000236969; OTTHUMP00000236970; OTTHUMP00000236971

**Gene ID** 923

**mRNA Refseq** NM\_006725

**Protein Refseq** NP\_006716

**MIM** 186720

**UniProt ID** P30203

**Chromosome  
Location** 11q13

**Pathway** Cell adhesion molecules (CAMs)

**Function** scavenger receptor activity

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