Cluster of Differentiation 151 (CD151) ELISA Kit for Hamster

PRODUCT OVERVIEW

Product Name	Cluster of Differentiation 151 (CD151), ELISA Kit
Full Product Name	Hamster Cluster of Differentiation 151 ELISA Kit
Product Gene Name	CD151 elisa kit
Species Reactivity	Hamster
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	28,295 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (832952..838835). Location: 11p15.5
OMIM	179620
3D Structure	ModBase 3D Structure for P48509
Related Product Information for CD151 elisa kit	MBS012904 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cluster of Differentiation 151 (CD151) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CD151. The ELISA analytical biochemical technique of the MBS012904 kit is based on CD151 antibody-CD151 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CD151 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CD151. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of CD151 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD151. It may not necessarily be applicable to this product.

NCBI GI #	21237751
NCBI GeneID	977
NCBI Accession #	NP_620599.1
UniProt Primary Accession #	P48509
UniProt Secondary Accession #	Q14826; Q86U54; Q96TE3; A8KAK8; E9PI15
UniProt Related Accession #	P48509
GenBank Nucleotide #	NM_139030.3
NCBI Official Full Name	CD151 antigen
NCBI Official Synonym Full Names	CD151 molecule (Raph blood group)
NCBI Official Symbol	CD151
NCBI Official Synonym Symbols	GP27; MER2; RAPH; SFA1; PETA-3; TSPAN24
UniProt Protein Name	CD151 antigen

UniProt Synonym Protein Names	GP27; Membrane glycoprotein SFA-1; Platelet-endothelial tetraspan antigen 3; PETA-3; Tetraspanin-24
Protein Family	CD151 antigen
UniProt Gene Name	CD151
UniProt Synonym Gene Names	TSPAN24; PETA-3; Tspan-24
UniProt Entry Name	CD151_HUMAN
NCBI Protein Information	CD151 antigen; tspan-24; tetraspanin-24; membrane glycoprotein SFA-1; CD151 antigen (Raph blood group); hemidesmosomal tetraspanin CD151; platelet surface glycoprotein gp27; platelet-endothelial tetraspan antigen 3; platelet-endothelial cell tetraspan antigen 3
NCBI Summary for CD151	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein that is known to complex with integrins and other transmembrane 4 superfamily proteins. It is involved in cellular processes including cell adhesion and may regulate integrin trafficking and/or function. This protein enhances cell motility, invasion and metastasis of cancer cells. Multiple alternatively spliced transcript variants that encode the same protein have been described for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for CD151	CD151: Essential for the proper assembly of the glomerular and tubular basement membranes in kidney. Defects in CD151 are the cause of nephropathy with pretibial epidermolysis bullosa and deafness (NPEBD). NPEBD is characterized by the association of hereditary nephritis, epidermolysis bullosa, deafness, and beta-thalassemia minor. Belongs to the tetraspanin (TM4SF) family. Protein type: Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: focal adhesion; membrane; integral to plasma membrane; plasma membrane; cytosol Molecular Function: integrin binding; protein binding Biological Process: T cell proliferation; cell migration; hemidesmosome assembly; extracellular matrix organization and biogenesis; cell adhesion Disease: Raph Blood Group System; Nephropathy With Pretibial Epidermolysis Bullosa And Deafness
Research Articles on CD151	**1.** Overexpression of CD151 was observed in a significant proportion of glioblastomas. CD151 overexpression was closely associated with MGMT methylation and was a prognostic factor for predicting worse survival.
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