

Datasheet for ABIN6973295 TREM2 Protein (AA 19-174) (His tag,AVI tag,Biotin)



Overview

Images

2

Quantity:	200 µg
Target:	TREM2
Protein Characteristics:	AA 19-174
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TREM2 protein is labelled with His tag,AVI tag,Biotin.

Product Details

Sequence:	AA 19-174
Specificity:	Biotinylation of this product is performed using Avitag [™] technology. Briefly, the single lysine
	residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	Rhesus macaque / Cynomolgus TROP-2 / TACSTD2 Protein, His Tag (MALS verified)
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per μ g by the LAL method.
Target Details	
Target:	TREM2

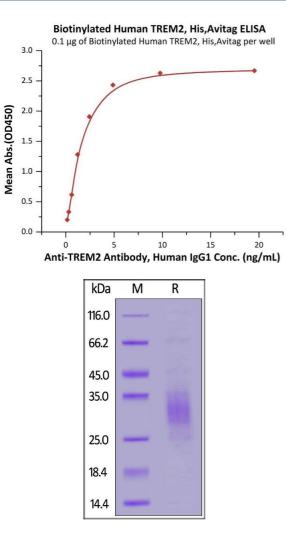
Target.	
Alternative Name:	TREM2 (TREM2 Products)

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN6973295 | 07/25/2024 | Copyright antibodies-online. All rights reserved.

Background:	Triggering receptor expressed on myeloid cells 2 (TREM2) is a cell surface receptor of the
	immunoglobulin superfamily. The TREM2 is found in various tissue macrophages, such as CNS
	microglia, bone osteoclasts, alveolar, peritoneal and intestinal macrophages. TREM2 is also
	present on cultured bone marrow-derived macrophages and monocyte-derived dendritic cells.
	Some research have identified a rare variant of TREM2 that is a risk factor for Alzheimer
	disease (AD), which is the most common form of late-onset dementia.The extracellular region
	of TREM2 contains a single immunoglobulin superfamily domain and binds polyanionic ligands,
	such as bacterial lipopolysaccharide (LPS) and phospholipids8. Upon ligand binding, TREM2
	transmits intracellular signals through an adaptor, DAP12 (also known as TYRO protein tyrosine
	kinase-binding protein (TYROBP)), which is associated with the transmembrane region of
	TREM2 and which recruits the protein tyrosine kinase SYK through its cytosolic
	immunoreceptor tyrosine-based activation motifs (ITAMs). TREM2 is a pro-tumorigenic marker
	of tumor-infiltrating macrophages in mouse models and human tumors that can be targeted to
	curb tumor growth and improve the efficacy of checkpoint blockade therapy while remodeling
	the landscape of tumor-infiltrating macrophages.
Molecular Weight:	21.0 kDa
Application Details	
Comment:	Ready-to-use Avitag™ biotinylated protein:
	The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino
	acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector
	construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.
	This single-point enzymatic labeling technique brings many advantages for commonly used
	binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does
	NOT interfere with the target protein's natural binding activities. In addition, when immobilized
	on an avidin-coated surface, the protein orientation is uniform because the position of the Avi
	tag in the protein is precisely controlled.
Restrictions:	For Research Use only
	To research ose only
Handling	
Format:	Lyophilized
Buffer:	PBS, pH 7.4

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN6973295 | 07/25/2024 | Copyright antibodies-online. All rights reserved. Storage:

Images



ELISA

Image 1. Immobilized Biotinylated Human TREM2, His,Avitag (ABIN6973295) at $1 \mu g/mL$ (100 $\mu L/well$) on streptavidin precoated ($2 \mu g/well$) plate can bind A Antibody, Human IgG1 with a linear range of 0.2-2 ng/mL (QC tested).

SDS-PAGE

Image 2. Biotinylated Human TREM2, His,Avitag[™] on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 %.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/3 | Product datasheet for ABIN6973295 | 07/25/2024 | Copyright antibodies-online. All rights reserved.