

[Go to Product page](#)

Datasheet for ABIN7317505 DMBT1 Protein (His tag)

Overview

Quantity:	100 µg
Target:	DMBT1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This DMBT1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human DMBT1/Muclin Protein (His Tag)(Active)
Sequence:	Met 1-Ser 220
Characteristics:	A DNA sequence encoding the N-terminal segment of human DMBT1 (NP_004397.2) (Met 1-Ser 220) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	1. Measured by its binding ability in a functional ELISA.2. Immobilized recombinant human Galectin-3 at 10 µg/ml (100 µl/well) can bind biotinylated DMBT1-His with a linear range of 0.06-1.0 µg/ml.

Target Details

Target:	DMBT1
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Target Details

Alternative Name: DMBT1/Muclin ([DMBT1 Products](#))

Background: Deleted in malignant brain tumors 1 protein, also known as glycoprotein 340, surfactant pulmonary-associated D-binding protein, DMBT1 and GP340, is a secreted protein which belongs to the DMBT1 family. DMBT1 contains 2 CUB domains, 14 SRCR domains and 1 ZP domain. It is highly expressed in alveolar and macrophage tissues. In some macrophages, expression is detected on the membrane, and in other macrophages, it is strongly expressed in the phagosome/phagolysosome compartments. Defects in DMBT1 are involved in the development of glioma (GLM). Gliomas are central nervous system neoplasms derived from glial cells and comprise astrocytomas, glioblastoma multiforme, oligodendrogliomas, and ependymomas. DMBT1 may be considered as a candidate tumor suppressor for brain, lung, esophageal, gastric, and colorectal cancers. It may play roles in mucosal defense system, cellular immune defense and epithelial differentiation. DMBT1 may play a role as an opsonin receptor for SFTPD and SPAR in macrophage tissues throughout the body, including epithelial cells lining the gastrointestinal tract. It may be an important factor in fate decision and differentiation of transit-amplifying ductular (oval) cells within the hepatic lineage. DMBT1 may function as a binding protein in saliva for the regulation of taste sensation. It binds to HIV-1 envelope protein and has been shown to both inhibit and facilitate viral transmission.

Synonym: GP340;muclin

Molecular Weight: 22.6 kDa

NCBI Accession: [NP_004397](#)

Pathways: [Activation of Innate immune Response](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted

samples are stable at < -20°C for 3 months.