

Product Information

MemDX™ Antibody Discovery - Human TPBG / 5T4 (32-355) Membrane Protein, Partial, -His -Avi tag, [Biotin]

Cat. No.: **MP0470F**

This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human TPBG / 5T4 (32-355). It has been tested in SDS-PAGE. We provide this protein to facilitate your membrane protein antibody discovery and development.

Product Specifications

Host Species

Human

Target Protein

TPBG / 5T4

Protein Length

ECD

Molecular Weight

The protein has a calculated MW of 39.0 kDa. The protein migrates as 50-70 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Sequence

AA Ser 32 - Ser 355 (Accession # Q13641-1).

Product Description

Application

SDS-PAGE

Expression Systems

HEK293

Tag

His tag at the C-terminus, followed by an Avi tag.

Protein Format

Soluble

Form

LYOPH

Reconstitution

Please see Certificate of Analysis for specific instructions.

Endotoxin

<1.0 EU/μg by the LAL method

Conjugation

Biotin

Purity

>90% as determined by SDS-PAGE.

Buffer

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.

The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile conditions after reconstitution after storage at -80°C.

Target**Target Protein**

TPBG / 5T4

Full Name

trophoblast glycoprotein

Introduction

This gene encodes a leucine-rich transmembrane glycoprotein that may be involved in cell adhesion. The encoded protein is an oncofetal antigen that is specific to trophoblast cells. In adults this protein is highly expressed in many tumor cells and is associated with poor clinical outcome in numerous cancers. Alternate splicing in the 5' UTR results in multiple transcript variants that encode the same protein.

Alternative Names

5T4; M6P1; 5T4AG; WAIF1; trophoblast glycoprotein; 5T4 oncofetal antigen; 5T4 oncofetal trophoblast glycoprotein; 5T4 oncotrophoblast glycoprotein; wnt-activated inhibitory factor 1

Gene ID

[7162](#)

UniProt ID

[Q13641](#)