# Data Sheet (Cat.No.TMAY-02464)

TargetMol

## Anti-TSPAN1 Antibody (4J370)

### Product Details

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| Ig Type: | Rabbit IgG |
| Reactivity: | Human |
| Conjugation: | Unconjugated |
| Clone: | 4J370 |
| Purification: | Protein A |

### Applications

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| Verified Activity: | 1. Immunochemical staining of human TSPAN1 in human rectal cancer with rabbit monoclonal antibody (1:10000, formalin-fixed paraffin embedded sections).<br>2. Immunochemical staining of human TSPAN1 in human prostate with rabbit monoclonal antibody (1:10000, formalin-fixed paraffin embedded sections).<br>3. Flow cytometric analysis of Human TSPAN1 expression on SW480 cells. The cells were treated according to manufacturer's manual (BD Pharmingen™ Cat. No. 554714), stained with purified anti-Human TSPAN1, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells. |
| Application: | ELISA,FCM,IHC-P |
| Recommended | ELISA: 1:5000-1:10000; IHC-P: 1:5000-1:20000; FCM: 1:25-1:100 |

### Properties

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| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free. |
| Shipping: | Shipping with blue ice. |

### Antigen Details

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| Immunogen: | Recombinant Protein: Human TSPAN1 Protein (TMPY-03936) |
| Antigen Species: | Human |
| Synonyms: | tetraspanin 1;TSPAN1;NET1;TM4SF;TM4C |

### Research Background

TSPAN1 belongs to the transmembrane 4 superfamily, also known as the tetraspanin family. Tetraspanins have four hydrophobic domains, intracellular N- and C-termini and two extracellular domains. Tetraspanins act as scaffolding proteins, anchoring multiple proteins to one area of the cell membrane. They also mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. TSPAN1 interacts with human thiamine transporter-1 (hTHTR-1). HTHTR-1 contributes to intestinal thiamine uptake, and its function is regulated at both the transcriptional and posttranscriptional levels. TSPAN1 and hTHTR-1 colocalize in human intestinal epithelial HuTu-8 cells. Coexpression of TSPAN1 in these cells led to a significant decrease in the rate of degradation of hTHTR-1 compared with cells expressing the hTHTR-1 alone; in fact the half-life of the TSPAN1 protein was twice longer in the former cell type compared with the latter cell type.

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