

**THTPA Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a full length recombinant THTPA.****Catalog # AT4236a****Specification**

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**THTPA Antibody (monoclonal) (M01) - Product Information**

|                   |                          |
|-------------------|--------------------------|
| Application       | WB, IHC, E               |
| Primary Accession | <a href="#">Q9BU02</a>   |
| Other Accession   | <a href="#">BC002984</a> |
| Reactivity        | Human                    |
| Host              | mouse                    |
| Clonality         | Monoclonal               |
| Isotype           | IgG1 Kappa               |
| Calculated MW     | 25566                    |

**THTPA Antibody (monoclonal) (M01) - Additional Information****Gene ID** 79178**Other Names**

Thiamine-triphosphatase, ThTPase, THTPA

**Target/Specificity**

THTPA (AAH02984, 1 a.a. ~ 230 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

THTPA Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

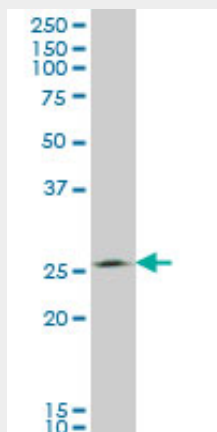
**THTPA Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

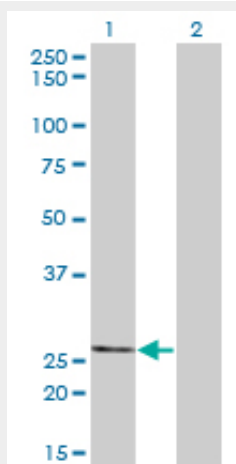
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### THTPA Antibody (monoclonal) (M01) - Images



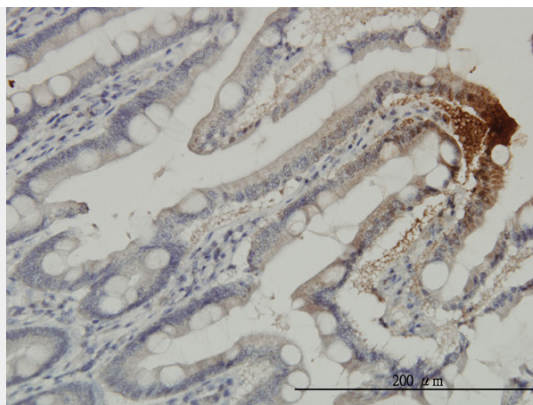
THTPA monoclonal antibody (M01), clone 3F6 Western Blot analysis of THTPA expression in A-431 ( Cat # L015V1 ).



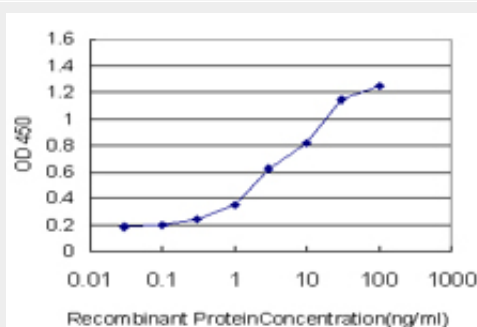
Western Blot analysis of THTPA expression in transfected 293T cell line by THTPA monoclonal antibody (M01), clone 3F6.

Lane 1: THTPA transfected lysate(25.6 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to THTPA on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged THTPA is approximately 0.1ng/ml as a capture antibody.

### **THTPA Antibody (monoclonal) (M01) - Background**

Thiamine triphosphatase (THTPA) catalyzes the hydrolysis of thiamine triphosphate (THTP) to thiamine diphosphate (THDP), which is the major cellular form of thiamine (vitamin B1) (Lakaye et al., 2002 [PubMed 11827967]).

### **THTPA Antibody (monoclonal) (M01) - References**

1. Thiamine status in humans and content of phosphorylated thiamine derivatives in biopsies and cultured cells. Gangolf M, Czerniecki J, Radermecker M, Detry O, Nisolle M, Jouan C, Martin D, Chantraine F, Lakaye B, Wins P, Grisar T, Bettendorff L. PLoS One. 2010 Oct 25;5(10):e13616.  
2. The Iron-Regulated Metastasis Suppressor, NdrG-1: Identification of Novel Molecular Targets. Kovacevic Z, Fu D, Richardson DR. Biochim Biophys Acta. 2008 Oct;1783(10):1981-92. Epub 2008 Jun 26.