

## TIMM23 mouse monoclonal antibody

Catalog: MB4025

Host: Mouse

Reactivity: Human, Mouse, Rat

### Background:

TIM23 is a subunit of the mitochondrial import inner membrane translocase complex. This complex mediates translocation of presequence-containing proteins into the mitochondrial matrix and inner membrane. Besides TIM23, there are multiple subunits in the complex, including TIM17A, TIM17B, and TIM50 (1,2). Studies show that mutant huntingtin (mHTT), the protein causing neurodegenerative Huntington's disease, binds to TIM23 subunit. There are less soluble matrix mitochondrial proteins imported by the TIM23 complex in cells expressing mHTT and in the brain tissues of Huntington's disease patients when compared with controls (2). In addition, asbestos causes translocation of NOX4 to the mitochondrial matrix through direct interaction with TIM23 in lung macrophages. TIM23 increases NOX4-induced reactive oxygen species (ROS) in mitochondria and metabolic reprogramming to oxidative phosphorylation (3).

### Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

~ 22 kDa

### Swiss-Prot:

O14925

### Purification&Purity:

The antibody was affinity-purified from mouse ascites fluids or tissue culture supernatant by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB 1:500~2000, IHC 1:2000

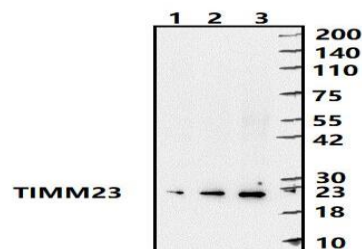
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Isotype:

IgG2b

### DATA:

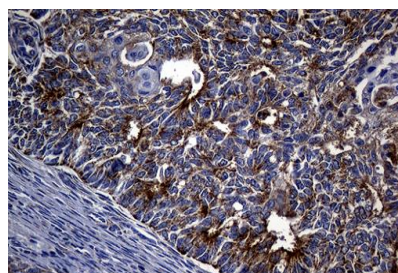


Western blot (WB) analysis of TIMM23 mouse monoclonal antibody at 1:500 dilution

Lane1:Jurkat whole cell lysate(30ug);

Lane2:A431 whole cell lysate(30ug);

Lane3:The Liver tissue lysate of Mouse(30ug)



Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-TIMM23 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120 °C for 3min, ) (1:2000)

### Note:

For research use only, not for use in diagnostic procedure.

### Bioworld Technology, Inc.

Add: 1660 South Highway 100, Suite 500 St. Louis Park, MN 55416, USA.

Email: [info@bioworld.com](mailto:info@bioworld.com)

Tel: 6123263284

Fax: 6122933841

### Bioworld technology, co. Ltd.

Add: No 9, weidi road Qixia District Nanjing, 210046, P. R. China.

Email: [info@biogot.com](mailto:info@biogot.com)

Tel: 0086-025-68037686

Fax: 0086-025-68035151