



Rabbit Anti-TIMM22 antibody

SL19931R

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| Product Name: | TIMM22 |
| Chinese Name: | Mitochondrion内膜转位同源蛋白22抗体 |
| Alias: | Mitochondrial import inner membrane translocase subunit Tim22; Putative membrane protein; Testis expressed sequence 4; TEX 4; TEX4; TIM 22; TIM22; TIMM 22; Translocase of inner mitochondrial membrane 22 homolog. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Pig,Cow,Horse,Sheep, |
| Applications: | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 20kDa |
| Cellular localization: | cytoplasmic |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human TIMM22:21-120/194 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed: | PubMed |
| Product Detail: | TIMM22 is an essential core component of the TIM22 protein insertion complex, a complex that mediates the import and insertion of multi-pass transmembrane proteins into the mitochondrial inner membrane. In the TIM22 complex, it constitutes the voltage-activated, signal-gated hydrophilic high-conductance channel. It forms a twin-pore translocase that uses the membrane potential as an external driving force in 2 |

voltage-dependent steps.

Function:

Essential core component of the TIM22 complex, a complex that mediates the import and insertion of multi-pass transmembrane proteins into the mitochondrial inner membrane. In the TIM22 complex, it constitutes the voltage-activated and signal-gated channel. Forms a twin-pore translocase that uses the membrane potential as external driving force in 2 voltage-dependent steps (By similarity).

Subunit:

Component of the TIM22 complex, whose core is composed of TIMM22, associated with peripheral protein FXC1/TIM10B and the 70 kDa heterohexamer. In most cases, the 70 kDa complex is composed of TIMM9 and TIMM10. A small fraction of the 70 kDa complex is composed of TIM8 (TIMM8A/DDP1 or TIMM8B/DDP2) and TIMM13. Interacts directly with TIMM9, TIMM10/TIM10A and FXC1/TIM10B.

Subcellular Location:

Mitochondrion inner membrane; Multi-pass membrane protein.

Similarity:

Belongs to the Tim17/Tim22/Tim23 family.

SWISS:

Q9Y584

Gene ID:

29928

Database links:

[Entrez Gene: 29928](#) Human

[Entrez Gene: 56322](#) Mouse

[Entrez Gene: 79463](#) Rat

[Omim: 607251](#) Human

[SwissProt: Q9Y584](#) Human

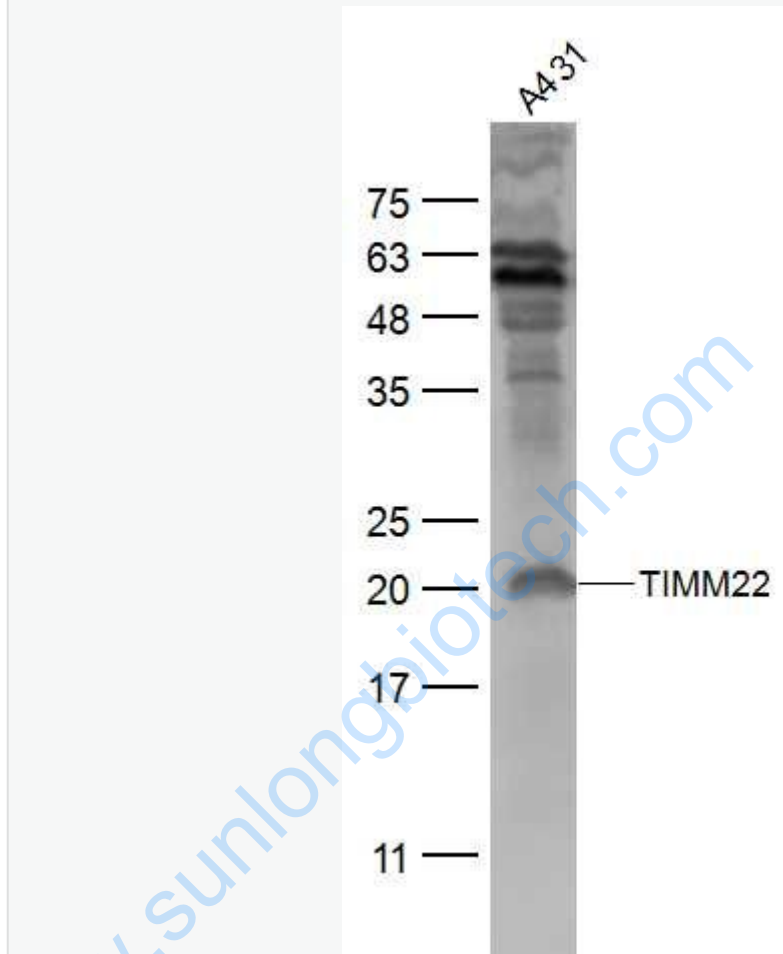
[SwissProt: Q9CQ85](#) Mouse

[SwissProt: Q9JKW1](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

A431(Human) Cell Lysate at 30 ug

Primary: Anti-TIMM22 (SL19931R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 20 kD

Observed band size: 20 kD