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**[ Primary Antibody ]**

# Rabbit Anti-TIMM8B antibody

**Catalog Number: SL23056R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | TIMM8B |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human TIMM8B: 21-70/83 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 1M PBS, pH 7.4<br>Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>ICC/IF=1:100-500<br>IF=1:100-500<br>ELISA=1:5000-10000 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | (predicted: Human, Mouse, Rat) |
| **Predicted MW.:** | 9kDa |
| **Subcellular Location:** | cytoplasmic Mitochondrion |
| **Background:** | This gene encodes a member of a well-conserved family of proteins with similarity to yeast Tim mitochondrial import proteins. This gene is encoded by a nuclear gene and is transported into the intermembrane space of the mitochondrion. When formed into complexes, these proteins guide membrane-spanning proteins across the mitochondrial intermembrane space before they are added into the mitochondrial inner membrane. This gene is adjacent to succinate dehydrogenase, subunit D (SDHD), in which mutations have been found in affected members of families with hereditary paraganglioma.[provided by RefSeq, Aug 2009]<br>**Function:** Probable mitochondrial intermembrane chaperone that participates in the import and insertion of some multi-pass transmembrane proteins into the |

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| | mitochondrial inner membrane. Also required for the transfer of beta-barrel precursors from the TOM complex to the sorting and assembly machinery (SAM complex) of the outer membrane. Acts as a chaperone-like protein that protects the hydrophobic precursors from aggregation and guide them through the mitochondrial intermembrane space (By similarity).<br>**Subunit:** Heterohexamer; possibly composed of 3 copies of TIMM8B and 3 copies of TIMM13, named soluble 70 kDa complex. Associates with the TIM22 complex, whose core is composed of TIMM22 (By similarity).<br>**Subcellular Location:** Mitochondrion inner membrane; Peripheral membrane protein; Intermembrane side.<br>**Tissue Specificity:** Ubiquitous, with highest expression in heart, kidney, liver and skeletal muscle.<br>**Similarity:** Belongs to the small Tim family.<br>**Database links:**<br>**Entrez Gene:** 26521 Human<br>**Entrez Gene:** 30057 Mouse<br>**Entrez Gene:** 64372 Rat<br>Omim: 606659 Human<br>**SwissProt:** Q9Y5J9 Human<br>**SwissProt:** P62077 Mouse<br>**SwissProt:** P62078 Rat |

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