

For Research Use Only

# CoraLite®594-conjugated TOM20 Monoclonal antibody



Catalog Number: CL594-66777

1 Publications

## Basic Information

|  |   |   |
|--|---|---|
| <b>Catalog Number:</b><br>CL594-66777                          | <b>GenBank Accession Number:</b><br>BC000882  | <b>Purification Method:</b><br>Protein A purification             |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>9804   | <b>CloneNo.:</b><br>1D6F5   |
| <b>Source:</b><br>Mouse  | <b>Full Name:</b><br>translocase of outer mitochondrial membrane 20 homolog (yeast) | <b>Recommended Dilutions:</b><br>IF 1:50-1:500                    |
| <b>Isotype:</b><br>IgG2b                                       | <b>Calculated MW:</b><br>145 aa, 16 kDa   | <b>Excitation/Emission maxima wavelengths:</b><br>588 nm / 604 nm |
| <b>Immunogen Catalog Number:</b><br>AG2378                     | <b>Observed MW:</b><br>16 kDa   |   |

## Applications

|   |  |
|---|--|
| <b>Tested Applications:</b><br>FC (Intra), IF | <b>Positive Controls:</b><br>IF : HepG2 cells, |
| <b>Cited Applications:</b><br>IF              |  |
| <b>Species Specificity:</b><br>Human          |  |
| <b>Cited Species:</b><br>human                |  |

## Background Information

TOM20, also named as KIAA0016, belongs to the Tom20 family. It is a central component of the receptor complex responsible for the recognition and translocation of cytosolically synthesized mitochondrial preproteins. Together with TOM22, TOM20 functions as the transit peptide receptor at the surface of the mitochondrion outer membrane and facilitates the movement of preproteins into the TOM40 translocation pore. TOM20 is characterized as major docking receptors to mediate the recognition by different mechanisms.

## Notable Publications

| Author     | Pubmed ID | Journal         | Application |
|------------|-----------|-----------------|-------------|
| Zhengyu Hu | 37409821  | Adv Sci (Weinh) | IF          |

## Storage

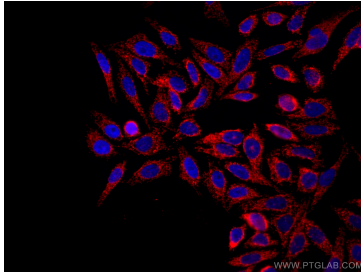
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

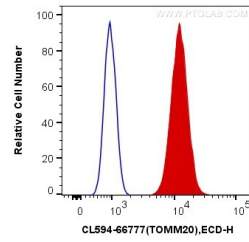
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CoraLite®594 TOM20 antibody (CL594-66777, Clone: 1D6F5) at dilution of 1:200.



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.2 ug CoraLite®594 Anti-Human TOM20 (CL594-66777, Clone:1D6F5) (red), or 0.2 ug Mouse IgG2b Isotype Control (CL594-66360-3, Clone: K11B8C4B5) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).