

Datasheet for ABIN968798
anti-TOMM20 antibody (AA 47-145)[2 Images](#)[3 Publications](#)[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	TOMM20
Binding Specificity:	AA 47-145
Reactivity:	Human, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TOMM20 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human Tom20 aa. 47-145
Clone:	29-Tom20
Isotype:	IgG1
Cross-Reactivity:	Dog (Canine), Rat (Rattus)
Characteristics:	<ol style="list-style-type: none">1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.2. Please refer to us for technical protocols.3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

chromatography.

Target Details

Target:	TOMM20
Alternative Name:	Tom20 (TOMM20 Products)
Background:	<p>Many mitochondrial proteins are encoded by nuclear genes and synthesized in the cytosol as pre-proteins. These pre-proteins are targeted to the mitochondria where they are translocated across the outer and inner membranes of the mitochondria. At the outer membrane of the mitochondria, this process requires a multiprotein complex called the Translocase of the Outer Membrane of the mitochondria (TOM). The TOM complex includes receptor components, Tom20, 22, 37, and 70, as well as a multisubunit general import pore complex of 400 kDa. Tom20 contains a hydrophobic N-terminal region that anchors it to the outer membrane of the mitochondria, and a cytosolic region that contains a domain that facilitates binding to the basic amphiphilic targeting sequences of pre-proteins and a tetratricopeptide repeat (TPR) motif involved in interactions with Tom70. In yeast, Tom20 and Tom22 mediate the import of all pre-proteins known to use the general import machinery of the mitochondria. Thus, Tom20 is an important receptor for many mitochondrial pre-proteins that use the outer mitochondrial translocation complex.</p>
Molecular Weight:	18 kDa
Pathways:	Unfolded Protein Response

Application Details

Comment:	Related Products: ABIN968537, ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Store undiluted at -20° C.

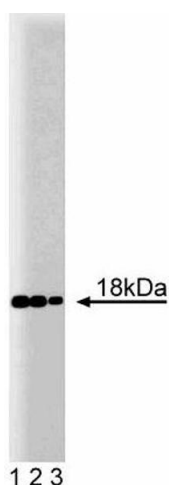
Publications

Product cited in: Krimmer, Rapaport, Ryan, Meisinger, Kassenbrock, Blachly-Dyson, Forte, Douglas, Neupert, Nargang, Pfanner: "Biogenesis of porin of the outer mitochondrial membrane involves an import pathway via receptors and the general import pore of the TOM complex." in: **The Journal of cell biology**, Vol. 152, Issue 2, pp. 289-300, (2001) ([PubMed](#)).

Abe, Shodai, Muto, Mihara, Torii, Nishikawa, Endo, Kohda: "Structural basis of presequence recognition by the mitochondrial protein import receptor Tom20." in: **Cell**, Vol. 100, Issue 5, pp. 551-60, (2000) ([PubMed](#)).

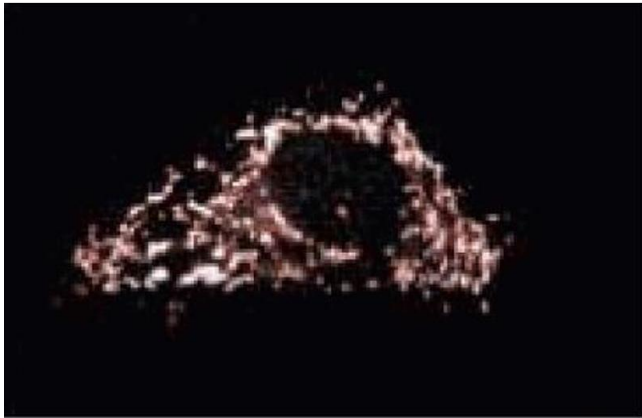
Hernández, Giner, Hernández-Yago: "Gene structure of the human mitochondrial outer membrane receptor Tom20 and evolutionary study of its family of processed pseudogenes." in: **Gene**, Vol. 239, Issue 2, pp. 283-91, (1999) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of Tom20 on Jurkat cell lysate. Lane 1: 1:5000, lane 2: 1:10000, lane 3: 1:20000 dilution of anti-Tom20.



Immunofluorescence

Image 2. Immunofluorescent staining on SK-HEP-1 cells.