

Datasheet for ABIN7598965
anti-Fission 1 antibody (AA 1-121)



[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	Fission 1 (FIS1)
Binding Specificity:	AA 1-121
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Fission 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-TTC11/FIS1 Antibody Picoband®
Immunogen:	E.coli-derived human TTC11/FIS1 recombinant protein (Position: M1-D121).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-TTC11/FIS1 Antibody (ABIN7598965). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Fission 1 (FIS1)
Alternative Name:	FIS1 (FIS1 Products)
Background:	Synonyms: Mitochondrial fission 1 protein, FIS1 homolog, hFis1, Tetratricopeptide repeat protein 11, TPR repeat protein 11, FIS1, TTC11, CGI-135 Tissue Specificity: Ubiquitous. Expressed in the rod and cone photoreceptors, extending from the tips of the outer segment (OS) through the inner segment (IS) and outer nuclear layer (ONL) and into the synaptic terminals of the outer plexiform layer (ONL). Also detected in the bipolar, horizontal and amacrine cells in the inner nuclear layer (INL), extending to the inner plexiform layer (IPL) and through the ganglion cell layer (GCL) and into the nerve fiber layer (NFL) (at protein level). Background: Mitochondrial fission 1 protein (FIS1) is a protein that in humans is encoded by the FIS1 gene on chromosome 7. It is mapped to 7q22.1. The balance between fission and fusion regulates the morphology of mitochondria. TTC11 is a component of a mitochondrial complex that promotes mitochondrial fission. Its role in mitochondrial fission thus implicates it in the regulation of mitochondrial morphology, the cell cycle, and apoptosis. By extension, the protein is involved in associated diseases, including neurodegenerative diseases and cancers.
Molecular Weight:	17 kDa
Gene ID:	51024
UniProt:	Q9Y3D6
Pathways:	Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Dohm, J. A., Lee, S. J., Hardwick, J. M., Hill, R. B., Gittis, A. G. Cytosolic domain of the human mitochondrial fission protein Fis1 adopts a TPR fold. <i>Proteins</i> 54: 153-156, 2004. 2. Frieden, M., James, D., Castelbou, C., Danckaert, A., Martinou, J.-C., Demareux, N. Ca(2+) homeostasis during mitochondrial fragmentation and perinuclear clustering induced by hFis1. <i>J. Biol. Chem.</i> 279: 22704-22714, 2004. 3. James, D. I., Parone, P. A., Mattenberger, Y., Martinou, J.-C. hFis1, a novel component of the mammalian mitochondrial fission machinery. <i>J. Biol. Chem.</i> 278:
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Application Details

36373-36379, 2003. Note: Erratum: J. Biol. Chem. 279: 36166 only, 2004.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg NaN₃.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.