Datasheet for ABIN7600321

anti-Fission 1 antibody (AA 18-152)

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Overview

Quantity:	100 µg
Target:	Fission 1 (FIS1)
Binding Specificity:	AA 18-152
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Fission 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-TTC11/FIS1 Antibody Picoband®
Immunogen:	E.coli-derived human TTC11/FIS1 recombinant protein (Position: E18-S152).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-TTC11/FIS1 Antibody Picoband® (ABIN7600321). Tested in ELISA, IF, IHC, ICC, WB applications. This antibody reacts with Human, 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 though 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 Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, 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. Proteins 54: 153-156, 2004. 2. Frieden, M., James, D., Castelbou, C., Danckaert, A., Martinou, J.-C., Demaurex, N. Ca(2+) homeostasis during mitochondrial fragmentation and perinuclear clustering induced by hFis1. J. Biol. Chem. 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. J. Biol. Chem. 278: 36373-36379, 2003. Note: Erratum: J. Biol. Chem. 279: 36166 only, 2004.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 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.
Storage:	4 °C,-20 °C
Storage Comment:	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 freezing and thawing.