Datasheet for ABIN7599480

anti-RARS2 antibody (AA 1-560)

Go to Product page

Overview

Quantity:	100 µg
Target:	RARS2
Binding Specificity:	AA 1-560
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RARS2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-RARS2 Antibody Picoband®
Immunogen:	E.coli-derived human RARS2 recombinant protein (Position: M1-R560). Human RARS2 shares 86.1% amino acid (aa) sequence identity with mouse RARS2.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-RARS2 Antibody Picoband® (ABIN7599480). Tested in WB, Flow Cytometry, ELISA 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:	RARS2
Alternative Name:	RARS2 (RARS2 Products)
Background:	Synonyms: RARS2, RARSL, Probable arginine--tRNA ligase, mitochondrial, EC 6.1.1.19, Arginyl-tRNA synthetase, ArgRS Background: This nuclear gene encodes a protein that localizes to the mitochondria, where it catalyzes the transfer of L-arginine to its cognate tRNA, an important step in translation of mitochondrially-encoded proteins. Defects in this gene are a cause of pontocerebellar hypoplasia type 6 (PCH6). Alternative splicing results in multiple transcript variants.
Molecular Weight:	66 kDa
Gene ID:	57038
UniProt:	Q5T160

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL 1. Edvardson, S., Shaag, A., Kolesnikova, O., Gomori, J. M., Tarassov, I., Einbinder, T., Saada, E., Elpeleg, O. Deleterious mutation in the mitochondrial arginyl-transfer RNA synthetase gene is associated with pontocerebellar hypoplasia. Am. J. Hum. Genet. 81: 857-862, 2007. 2. Li, Z., Schonberg, R., Guidugli, L., Johnson, A. K., Arnovitz, S., Yang, S., Scafidi, J., Summar, M. L., Vezina, G., Das, S., Chapman, K., del Gaudio, D. A novel mutation in the promoter of RARS2 causes pontocerebellar hypoplasia in two siblings. J. Hum. Genet. 60: 363-369, 2015. 3. Rankin, J., Brown, R., Dobyns, W. B., Harington, J., Patel, J., Quinn, M., Brown, G. Pontocerebellar hypoplasia type 6: a British case with PEHO-like features. Am. J. Med. Genet. 152A: 2079-2084, 2010.
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.

Handling

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.