Datasheet for ABIN7599631

anti-MATR3 antibody (AA 101-828)

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Overview

Quantity:	100 µg
Target:	MATR3
Binding Specificity:	AA 101-828
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MATR3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-MATR3 Antibody Picoband®
Immunogen:	E.coli-derived human MATR3 recombinant protein (Position: H101-Q828).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-MATR3 Antibody Picoband® (ABIN7599631). Tested in ELISA, IF, IHC, ICC, WB, Flow Cytometry 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:	MATR3
Alternative Name:	MATR3 (MATR3 Products)
Background:	Synonyms: Gamma-enolase, 2-phospho-D-glycerate hydro-lyase, Enolase 2, Neural enolase, Neuron-specific enolase, NSE, ENO2 Tissue Specificity: The alpha/alpha homodimer is expressed in embryo and in most adult tissues. The alpha/beta heterodimer and the beta/beta homodimer are found in striated muscle, and the alpha/gamma heterodimer and the gamma/gamma homodimer in neurons. Background: Matrin-3 is a protein that in humans is encoded by the MATR3 gene. This gene encodes a nuclear matrix protein, which is proposed to stabilize certain messenger RNA species. Mutations of this gene are associated with distal myopathy 2, which often includes vocal cord and pharyngeal weakness. Alternatively spliced transcript variants, including read-through transcripts composed of the upstream small nucleolar RNA host gene 4 (non-protein coding) and matrin 3 gene sequence, have been identified. Pseudogenes of this gene are located on chromosomes 1 and X.
Molecular Weight:	125 kDa
Gene ID:	9782
UniProt:	P43243

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Human, Mouse, Rat Immunohistochemistry, 1-2 µg/mL, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, -

1. Belgrader, P., Dey, R., Berezney, R. Molecular cloning of matrin 3: a 125-kilodalton protein of the nuclear matrix contains an extensive acidic domain. J. Biol. Chem. 266: 9893-9899, 1991. 2. Feit, H., Silbergleit, A., Schneider, L. B., Gutierrez, J. A., Fitoussi, R.-P., Reyes, C., Rouleau, G. A., Brais, B., Jackson, C. E., Beckmann, J. S., Seboun, E. Vocal cord and pharyngeal weakness with autosomal dominant distal myopathy: clinical description and gene localization to 5q31. Am. J. Hum. Genet. 63: 1732-1742, 1998. 3. Johnson, J. O., Pioro, E. P., Boehringer, A., Chia, R., Feit, H., Renton, A. E., Pliner, H. A., Abramzon, Y., Marangi, G., Winborn, B. J., Gibbs, J.R., Nalls, M. A., and 30 others. Mutations in the matrin 3 gene cause familial amyotrophic lateral sclerosis. Nature Neurosci. 17: 664-666, 2014.

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.