Datasheet for ABIN7601439

anti-COL6A2 antibody (AA 35-949)

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Overview

Quantity:	100 µg
Target:	COL6A2
Binding Specificity:	AA 35-949
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COL6A2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-Collagen VI/COL6A2 Antibody Picoband®
Immunogen:	E.coli-derived human Collagen VI/COL6A2 recombinant protein (Position: N35-D949).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Collagen VI/COL6A2 Antibody Picoband® (ABIN7601439). Tested in ELISA, IHC, WB applications. This antibody reacts with Human. 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:	COL6A2
Alternative Name:	COL6A2 (COL6A2 Products)
Background:	Synonyms: ETS-related transcription factor Elf-1, E74-like factor 1, ELF1 Tissue Specificity: In fetal tissues, it is highly expressed in heart, lung liver and kidney, and weakly expressed in brain. In adult, it is highly expressed in pancreas, spleen, thymus and peripheral blood leukocytes, expressed at moderate levels in heart, placenta, lung, liver, skeletal muscle, kidney, prostate, ovary, small intestine and colon, and weakly expressed in brain and testis. Background: Collagen alpha-2(VI) chain is a protein that in humans is encoded by the COL6A2 gene. This gene encodes one of the three alpha chains of type VI collagen, a beaded filament collagen found in most connective tissues. The product of this gene contains several domains similar to von Willebrand Factor type A domains. These domains have been shown to bind extracellular matrix proteins, an interaction that explains the importance of this collagen in organizing matrix components. Mutations in this gene are associated with Bethlem myopathy and Ullrich scleroatonic muscular dystrophy. Three transcript variants have been identified for this gene.
Molecular Weight:	150 kDa
Gene ID:	1292
UniProt:	P12110

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - 1. Ackerman, C., Locke, A. E., Feingold, E., Reshey, B., Espana, K., Thusberg, J., Mooney, S., Bean, L. J. H., Dooley, K. J., Cua, C. L., Reeves, R. H., Sherman, S. L., Maslen, C. L. An excess of deleterious variants in VEGF-A pathway genes in Down-syndrome-associated atrioventricular septal defects. Am. J. Hum. Genet. 91: 646-659, 2012. 2. Baker, N. L., Morgelin, M., Pace, R. A., Peat, R. A., Adams, N. E., Gardner, R. J. M., Rowland, L. P., Miller, G., De Jonghe, P., Ceulemans, B., Hannibal, M. C., Edwards, M., Thompson, E. M., Jacobson, R., Quinlivan, R. C. M., Aftimos, S., Kornberg, A. J., North, K. N., Bateman, J. F., Lamande, S. R. Molecular consequences of dominant Bethlem myopathy collagen VI mutations. Ann. Neurol. 62: 390-405, 2007. 3. Baker, N. L., Morgelin, M., Peat, R., Goemans, N., North, K. N., Bateman, J. F., Lamande, S. R. Dominant

Application Details

	collagen VI mutations are a common cause of Ullrich congenital muscular dystrophy. Hum. Molec. Genet. 14: 279-293, 2005.
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.