

Product datasheet

Anti-Collagen VI alpha 2 antibody [EPR7889(N)] ab180855

Recombinant RabMAb

★★★★★ 1 Abreviews 3 References 3 Images

Overview

Product name	Anti-Collagen VI alpha 2 antibody [EPR7889(N)]
Description	Rabbit monoclonal [EPR7889(N)] to Collagen VI alpha 2
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB Unsuitable for: ICC/IF or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human Collagen VI alpha 2 aa 800-900 (internal sequence) (Cysteine residue). The exact sequence is proprietary. Database link: P12110
Positive control	WB: Human skin lysate IHC-P: Human colon carcinoma tissue
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.</p> <p>Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide

	Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR7889(N)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab180855 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P	★★★★★ (1)	1/4000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. For unpurified form, use 1/500 - 1/1000 dilution
WB		1/1000 - 1/5000. Predicted molecular weight: 109 kDa.

Application notes Is unsuitable for ICC/IF or IP.

Target

Function Collagen VI acts as a cell-binding protein.

Involvement in disease Defects in COL6A2 are a cause of Bethlem myopathy (BM) [MIM:158810]. BM is a rare autosomal dominant proximal myopathy characterized by early childhood onset (complete penetrance by the age of 5) and joint contractures most frequently affecting the elbows and ankles.

Defects in COL6A2 are a cause of Ullrich congenital muscular dystrophy (UCMD) [MIM:254090]; also known as Ullrich scleroatonic muscular dystrophy. UCMD is an autosomal recessive congenital myopathy characterized by muscle weakness and multiple joint contractures, generally noted at birth or early infancy. The clinical course is more severe than in Bethlem myopathy.

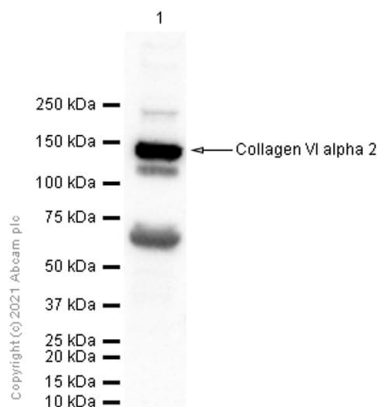
Defects in COL6A2 are the cause of myosclerosis autosomal recessive (MYOSAR) [MIM:255600]; also known as myosclerotic myopathy or congenital myosclerosis of Lowenthal. A condition characterized by chronic inflammation of skeletal muscle with hyperplasia of the interstitial connective tissue. The clinical picture includes slender muscles with firm 'woody' consistency and restriction of movement of many joints because of muscle contractures.

Sequence similarities Belongs to the type VI collagen family.
Contains 3 VWFA domains.

Post-translational modifications Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.

Cellular localization Secreted > extracellular space > extracellular matrix. Membrane. Recruited on membranes by CSPG4.

Images



Western blot - Anti-Collagen VI alpha 2 antibody
[EPR7889(N)] (ab180855)

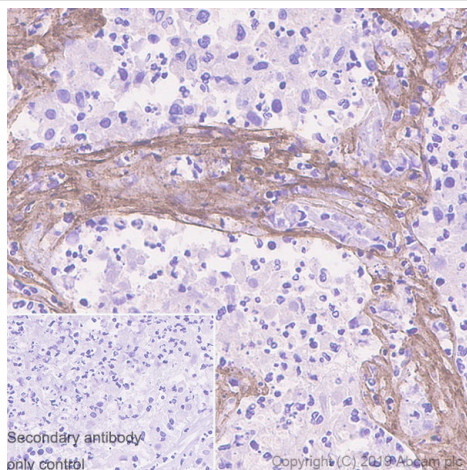
Anti-Collagen VI alpha 2 antibody [EPR7889(N)] (ab180855) at
1/1000 dilution (Purified) + Human skin lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with
human IgG at 1/2000 dilution

Predicted band size: 109 kDa

Observed band size: 140 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-Collagen VI alpha 2
antibody [EPR7889(N)] (ab180855)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded
sections) analysis of human colon carcinoma tissue sections
labeling Collagen VI alpha 2 with Purified ab180855 at 1:4000
dilution (0.413 µg/ml). Heat mediated antigen retrieval was
performed using Heat mediated antigen retrieval using Bond™
Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained
with Hematoxylin. Rabbit specific IHC polymer detection kit
HRP/DAB (**ab209101**) secondary antibody was used. PBS instead
of the primary antibody was used as the negative control.

Why choose a recombinant antibody?



**Research with
confidence**
Consistent and
reproducible results



**Long-term and
scalable supply**
Recombinant
technology



**Success from the
first experiment**
Confirmed
specificity



**Ethical standards
compliant**
Animal-free
production

Anti-Collagen VI alpha 2 antibody [EPR7889(N)]
(ab180855)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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