abcam

Product datasheet

Anti-Collagen VI antibody ab99249

1 References 1 Image

Overview

Product name	Anti-Collagen VI antibody
Description	Rabbit polyclonal to Collagen VI
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat, Horse, Cow, Dog, Pig, Chimpanzee, Macaque monkey, Gorilla
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 150 - 250 of Human Collagen VI.Read Abcam's proprietary immunogen policy
Positive control	This antibody gave a positive signal in the following tissue lysates: Human Skeletal Muscle; Human Skin; Human Heart as well as the following whole cell lysates: MEF1; NIH3T3; STO; WI38.

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Note: Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab99249** in the following tested applications.

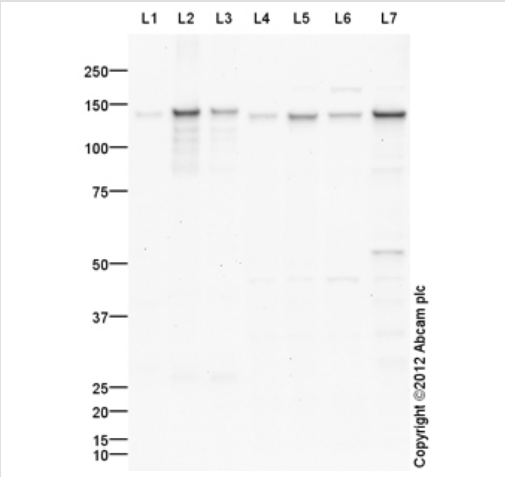
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 147 kDa (predicted molecular weight: 108 kDa).

Target

Function	Collagen VI acts as a cell-binding protein.
Involvement in disease	Defects in COL6A1 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 COL6A1 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.
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.

Images



Western blot - Anti-Collagen VI antibody (ab99249)

All lanes : Anti-Collagen VI antibody (ab99249) at 1 µg/ml

Lane 1 : Human skeletal muscle tissue lysate - total protein (ab29330)
Lane 2 : Human thymus tissue lysate - total protein (ab30146)
Lane 3 : Human heart tissue lysate - total protein (ab29431)
Lane 4 : MEF1 (Mouse embryonic fibroblast cell line) Whole Cell Lysate
Lane 5 : NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate
Lane 6 : STO (Mouse embryonic fibroblast cell line) Whole Cell Lysate
Lane 7 : WI-38 whole cell lysate (ab3960)

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (ab97080) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 108 kDa
Observed band size: 147 kDa
Additional bands at: 53 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 2 minutes

The expression profile observed is consistent with what has been described in the literature (PMID:18276594). Collagen VI contains a number of potential glycosylation sites (SwissProt) which may explain its migration at a higher molecular weight than predicted.

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