# abcam

### Product datasheet

## Anti-Plectin antibody [E398P] ab32528

KO VALIDATED Recombinant RabMAb

\*\*\*\* \* 5 Abreviews 33 References 4 Images

Overview

Properties

Product name	Anti-Plectin antibody [E398P]
Description	Rabbit monoclonal [E398P] to Plectin
Host species	Rabbit
Specificity	This antibody recognises plectin, a 500-kDa intermediate filament binding protein.
Tested applications	Suitable for: IHC-P, WB Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Human
	Predicted to work with: Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	Jurkat whole cell lysate (ab7899), human skeletal muscle WB: U-2 OS cell lysate.
General notes	<ul> <li>This product is a recombinant monoclonal antibody, which offers several advantages including:</li> <li>High batch-to-batch consistency and reproducibility</li> <li>Improved sensitivity and specificity</li> <li>Long-term security of supply</li> <li>Animal-free production</li> <li>For more information see here.</li> <li>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb<sup>®</sup> patents.</li> </ul>

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Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	E398P

#### Applications

The Abpromise guaranteeOur Abpromise guaranteecovers the use of ab32528 in the following tested applications.The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

ApplicationAbreviewsNotesIHC-P\*\*\*\*\*(1)1/250. Perform heat mediated antigen retrieval with citrate buffer<br/>pH 6 before commencing with IHC staining protocol.WB\*\*\*\*\*(1)1/5000. Predicted molecular weight: 532 kDa.

**Application notes** 

Is unsuitable for Flow Cyt.

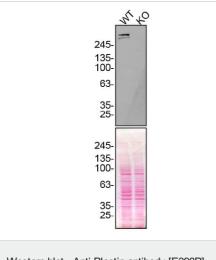
Target	
Function	Interlinks intermediate filaments with microtubules and microfilaments and anchors intermediate filaments to desmosomes or hemidesmosomes. Could also bind muscle proteins such as actin to membrane complexes in muscle. May be involved not only in the filaments network, but also in the regulation of their dynamics. Structural component of muscle. Isoform 9 plays a major role in the maintenance of myofibers integrity.
Tissue specificity	Widely expressed with highest levels in muscle, heart, placenta and spinal cord.
Involvement in disease	Epidermolysis bullosa simplex with pyloric atresia Epidermolysis bullosa simplex, with muscular dystrophy Epidermolysis bullosa simplex, Ogna type Limb-girdle muscular dystrophy 2Q
Sequence similarities	Belongs to the plakin or cytolinker family. Contains 1 actin-binding domain. Contains 2 CH (calponin-homology) domains. Contains 33 plectin repeats. Contains 4 spectrin repeats.
Domain	The N-terminus interacts with actin, the C-terminus with vimentin, desmin, GFAP, cytokeratins, lamin B; whereas both the N-and the C-terminus can bind integrin beta-4.
Post-translational modifications	Phosphorylated by CDK1; regulates dissociation from intermediate filaments during mitosis.
Cellular localization	Cytoplasm > cytoskeleton. Cell junction > hemidesmosome.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Plectin antibody [E398P] (ab32528)

Immunohistochemical staining of paraffin-embedded human skeletal muscle using ab32528 at a dilution of 1/250 Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.





All lanes : Anti-Plectin antibody [E398P] (ab32528) at 1/5000 dilution

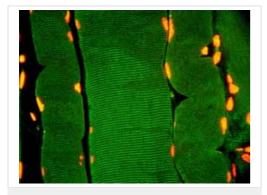
Lane 1 : Wild-type U-2 OS cell lysate Lane 2 : PLEC knockout U-2 OS cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 532 kDa

ab32528 was shown to react with PLEC in wild-type U-2 OS cells in Western blot with loss of signal observed in a PLEC knockout cell line. Wild-type U-2 OS and PLEC knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 5% milk in TBST for 1 hr before incubation with ab32528 overnight at 4 °C at a 1/5000 dilution. Blots were incubated with goat anti-rabbit HRP secondary antibodies at 0.2ug/mL before imaging. These data were provided by YCharOS Inc., an open science company with the mission of characterizing commercially available antibody reagents for all human proteins. Abcam and YCharOS are working together to help address the reproducibility crisis by enabling the life science community to better evaluate commercially available antibodies.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Plectin antibody [E398P] (ab32528)



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

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#### **Terms and conditions**

Fluorescent immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue using ab32528. Green-Plectin red-Pl

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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