Datasheet for ABIN3043900

anti-PLEC antibody (Middle Region)

4 Images

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Overview

Quantity:	100 µg
Target:	PLEC
Binding Specificity:	AA 2644-2671, Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PLEC antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Plectin(PLEC) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Plectin (2644-2671aa RFIEQEKAKLEQLFQDEVAKAQQLREEQ), different from the related mouse sequence by one amino acid, and from the related rat sequence by two amino acids.
Sequence:	RFIEQEKAKL EQLFQDEVAK AQQLREEQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Plectin(PLEC) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: plectin

Product Details

	Protein Name: Plectin
Purification:	Immunogen affinity purified.

Target Details

Target:	PLEC
Alternative Name:	PLEC (PLEC Products)
Background:	Plectin, known as PLEC, is a prominent member of an important family of structurally and in part functionally related proteins, termed plakins or cytolinkers, that are capable of interlinking different elements of the cytoskeleton. Plakins, with their multi-domain structure and enormous size, not only play crucial roles in maintaining cell and tissue integrity and orchestrating dynamic changes in cytoarchitecture and cell shape, but also serve as scaffolding platforms for the assembly, positioning, and regulation of signaling complexes. Plectin is expressed as several protein isoforms in a wide range of cell types and tissues from a single gene located on chromosome 8 in humans. The plectin gene locus in mouse on chromosome 15 has been analyzed in detail, revealing a genomic exon-intron organization with well over 40 exons spanning over 62 kb and an unusual 5' transcript complexity of plectin isoforms. Eleven exons (1-1j) have been identified that alternatively splice directly into a common exon 2 which is the first exon to encode plectin's highly conserved actin binding domain (ABD). Three additional exons (-1, 0a, and 0) splice into an alternative first coding exon (1c), and two additional exons (2alpha and 3alpha) are optionally spliced within the exons encoding the acting binding domain (exons 2-8). Analysis of the human locus has identified eight of the eleven alternative 5' exons found in mouse and rat, exons 1i, 1j and 1h have not been confirmed in human. Furthermore, isoforms lacking the central rod domain encoded by exon 31 have been detected in mouse, rat, and human. The short alternative amino-terminal sequences encoded by the different first exons direct the targeting of the various isoforms to distinct subcellular locations. As the expression of specific plectin isoforms was found to be dependent on cell type (tissue) and stage of development, it appears that each cell type (tissue) contains a unique set (proportion and composition) of plectin isoforms, as if custom-made for specific requirements of the particular cells. Concordantly, individual isoforms were found to carry out distinct and specific functions. Synonyms: EBS1 antibody|EBSO antibody|HD1 antibody|Hemidesmosomal protein 1 antibody|PCN antibody| pleC antibody|PLEC_HUMAN antibody|PLEC1 antibody|PLEC1b antibody|Plectin 1 antibody|plectin 1 intermediate filament binding protein 500 kDa

Target Details

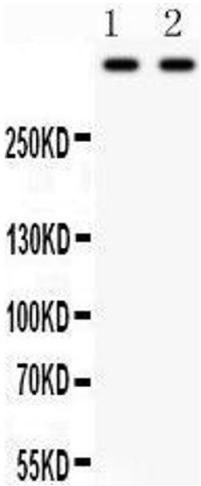
	antibody|Plectin 6 antibody|Plectin antibody |Plectin-1 antibody|PLTN antibody
Gene ID:	5339
UniProt:	Q15149

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for Plectin is approximately 0.1 ng/lane under reducing conditions. IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

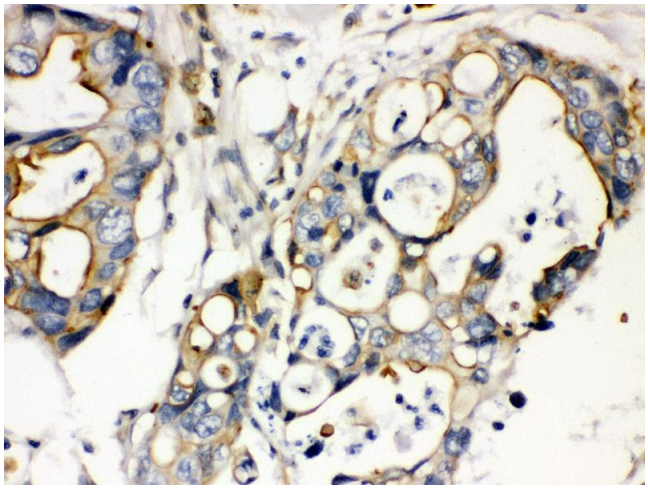
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.



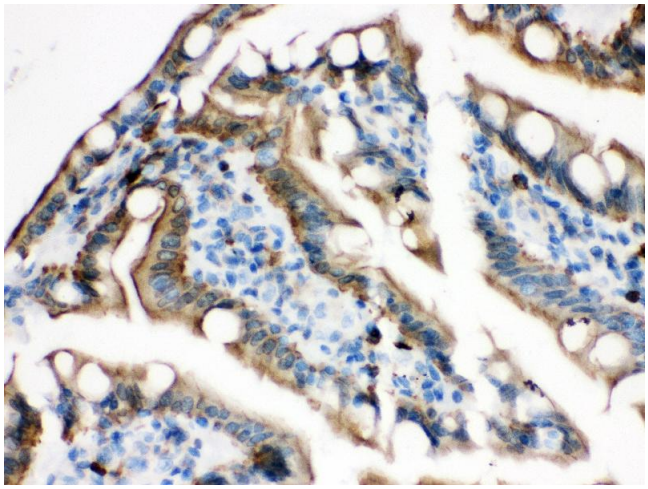
Western Blotting

Image 1.



Immunohistochemistry

Image 2. Anti- Plectin Picoband antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue



Immunohistochemistry

Image 3. Anti- Plectin Picoband antibody, IHC(P) IHC(P): Rat Intestine Tissue

Please check the product details page for more images. Overall 4 images are available for ABIN3043900.