

Plectin Polyclonal Antibody | anti-PLEC antibody

Anti-Plectin Antibody

CATALOG # AAA46302	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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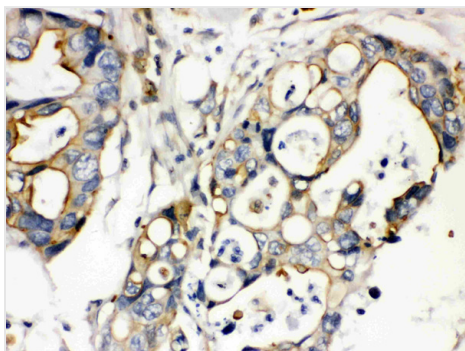
PRODUCT SYNONYMS

Plectin; Polyclonal Antibody; Anti-Plectin Antibody; EBS1; EBSO; HD1; Hemidesmosomal protein 1; PCN; pleC; PLEC_HUMAN; PLEC1; PLEC1b; Plectin 1; plectin 1 intermediate filament binding protein 500kDa; Plectin 6; Plectin antibody ; Plectin-1; PLTN; plectin; anti-PLEC antibody

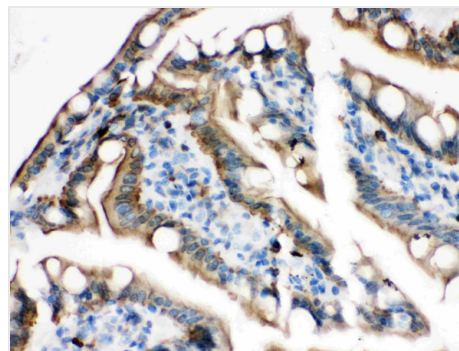
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	4574
Applicable Applications for anti-PLEC antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Plectin (2644-2671aa RFIEQEKAKLEQLFQDEVAQAQLREEQ), different from the related mouse sequence by one amino acid, and from the related rat sequence by two amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

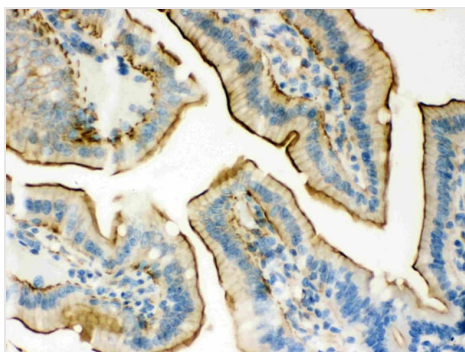
IMAGES



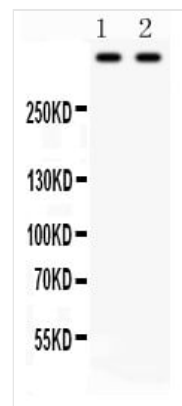
IHC (Immunohistochemistry)
Anti- Plectin Picoband antibody, AAA46302, IHC(P)IHC(P): Human Intestinal Cancer Tissue



IHC (Immunohistochemistry)
Anti- Plectin Picoband antibody, AAA46302, IHC(P)IHC(P): Rat Intestine Tissue



IHC (Immunohistochemistry)
Anti- Plectin Picoband antibody, AAA46302, IHC(P)IHC(P): Mouse Intestine Tissue



WB (Western Blot)
Anti- Plectin Picoband antibody, AAA46302, Western blottingAll lanes: Anti Plectin (AAA46302) at 0.5ug/mlLane 1: HELA Whole Cell Lysate at 40ugLane 2: Rat Brain Tissue Lysate at 50ugPredicted bind size: 532KDObserved bind size: 532KD

ADDITIONAL INFORMATION

Related Product Information for anti- PLEC antibody	Description: Rabbit IgG polyclonal antibody for Plectin(PLEC) detection. Tested with WB, IHC-P in Human;Mouse;Rat. 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.
References	1. Svitkina TM, Verkhovsky AB, Borisy GG (Nov 1996). "Plectin sidearms mediate interaction of intermediate filaments with microtubules and other components of the cytoskeleton". The Journal of Cell Biology135 (4): 991-1007. 2. Wiche G (Sep 1998). "Role of plectin in cytoskeleton organization and dynamics"(ABSTRACT). Journal of Cell Science. 111 (Pt 17) (17): 2477-86.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47607492
NCBI GeneID	5339
NCBI Accession #	NP_000436.2
NCBI GenBank Nucleotide #	NM_000445.4
UniProt Accession #	Q15149 ; Q15148 ; Q16640 ; Q6S376 ; Q6S377 ; Q6S378 ; Q6S379 ; Q6S380 ; Q6S381 ; Q6S382 ; Q6S383
Molecular Weight	514,775 Da

NCBI Official Full Name	plectin isoform 1c
NCBI Official Synonym Full Names	plectin
NCBI Official Symbol	PLEC
NCBI Official Synonym Symbols	HD1; PCN; EBS1; EBSO; PLTN; EBSMD; EBSND; EBSOG; EBSPA; PLEC1; LGMD2Q; PLEC1b
NCBI Protein Information	plectin
UniProt Protein Name	Plectin
UniProt Gene Name	PLEC
UniProt Synonym Gene Names	PLEC1; PCN; PLTN; HD1
UniProt Entry Name	PLEC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/plectin-antibody-immunohistochemistry-western-blot-elisa/46302>