



## Rabbit Anti-Plectin antibody

SL3640R

<b>Product Name:</b>	Plectin
<b>Chinese Name:</b>	网蛋白抗体
<b>Alias:</b>	EBS1; EBSO; HD1; Hemidesmosomal protein 1; PCN; PLEC1; PLEC1b; Plectin 1 plectin 1 intermediate filament binding protein 500kDa; Plectin 6; PLTN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Cow,Horse,
<b>Applications:</b>	ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	515kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Plectin:4451-4550/4684
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	<p>Plectin 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 crosslinking and stabilization of cytoskeletal intermediate filaments network, but also in the regulation of their dynamics.</p> <p><b>Function:</b></p>

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.

**Subunit:**

Homodimer or homotetramer. Interacts (via actin-binding domain) with Nesprin-3. Interacts (via CH 1 domain) with VIM (via rod region). Interacts with FER (By similarity). Interacts with COL17A1 (via N-terminus). Interacts (via N-terminus) with DST isoform 1 (via N-terminus).

**Subcellular Location:**

Cytoplasm, cytoskeleton. Cell junction, hemidesmosome.

**Tissue Specificity:**

Widely expressed with highest levels in muscle, heart, placenta and spinal cord.

**Post-translational modifications:**

Phosphorylated by CDK1; regulates dissociation from intermediate filaments during mitosis. Phosphorylated upon DNA damage, probably by ATM or ATR.

**DISEASE:**

Defects in PLEC are the cause of epidermolysis bullosa simplex with pyloric atresia (EBS-PA) [MIM:612138]. EBS-PA is an autosomal recessive genodermatosis characterized by severe skin blistering at birth and congenital pyloric atresia. Death usually occurs in infancy. This disorder is allelic to MD-EBS.

**Similarity:**

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.

**SWISS:**

Q15149

**Gene ID:**

5339

**Database links:**

[Entrez Gene: 5339](#) Human

[Entrez Gene: 18810](#) Mouse

[Entrez Gene: 64204](#) Rat

[Omid: 601282](#) Human

[SwissProt: Q15149](#) Human

[SwissProt: Q9QXS1](#) Mouse

[SwissProt: P30427](#) Rat

[Unigene: 434248](#) Human

[Unigene: 234912](#) Mouse

[Unigene: 1085](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

网蛋白(plectin)在介导、维持、稳定Cytoskeleton中起到关键作用, 在微管、微丝和中间丝之间的连接中具有结构性功能。