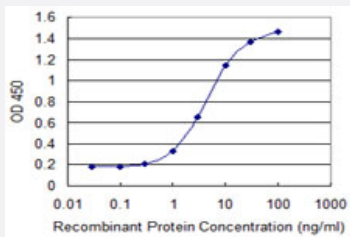


PLEC1 monoclonal antibody (M03), clone 4C3

Catalog # H00005339-M03

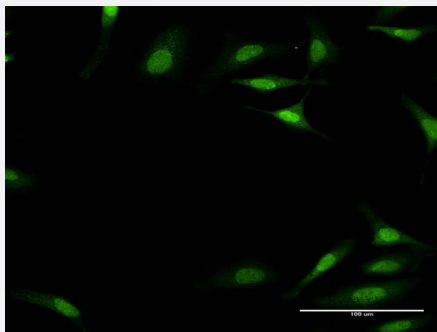
Size 100 ug

Applications



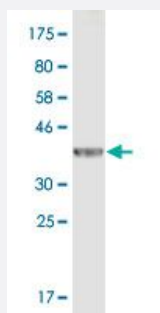
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PLEC1 is 0.1 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to PLEC1 on HeLa cell . [antibody concentration 15 ug/ml]



Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant PLEC1.

Immunogen	PLEC1 (NP_000436, 4384 a.a. ~ 4493 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	CGFEDPRTKTKMSAAQALKKGWLYYEAGQRFLEVQYLTGGLIEPDTPGRVPLDEALQRGTVDAR TAQKL RDVGAYSKYLTCPKTKLKISYKDALDRSMVEEGTGLRLLEA
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (98); Rat (98)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PLEC1 is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to PLEC1 on HeLa cell . [antibody concentration 15 ug/ml]

Gene Info — PLEC1

Entrez GeneID [5339](#)

GeneBank Accession# [NM_000445](#)

Protein Accession#	NP_000436
Gene Name	PLEC1
Gene Alias	EBS1, EBSO, HD1, PCN, PLEC1b, PLTN
Gene Description	plectin 1, intermediate filament binding protein 500kDa
Omim ID	131950 226670 601282
Gene Ontology	Hyperlink
Gene Summary	<p>Plectin 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 (for reviews see PMID: 9701547, 11854008 and 17499243). Plectin is expressed as several protein isoforms in a wide range of cell types and tissues from a single gene located on chromosome 8 (PMID: 8633055, 8698233). The plectin gene locus in mouse on chromosome 15 has been analyzed in detail (PMID: 10556294, 14559777), 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 actin binding domain (exons 2-8). Analysis of the human locus has identified eight of the eleven alternative 5' exons found in mouse and rat (PMID: 14672974). Furthermore, isoforms lacking the central rod domain encoded by exon 31 have been detected in mouse and rat (PMID: 10556294, 9177781), and as judged by molecular size, have also been detected in human on the protein level (PMID: 11441066, 10780662). It has been shown that the short alternative amino-terminal sequences encoded by the different first exons direct the targeting of the various isoforms to distinct subcellular locations (PMID: 14559777). As the expression of specific plectin isoforms was found to be dependent on cell type (tissue) and stage of development (PMID: 10556294, 12542521, 17389230) 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 (PMID: 14559777, 12542521, 18541706). In 1996 a number of groups reported that patients</p>
Other Designations	epidermolysis bullosa simplex 1 (Ogna) hemidesmosomal protein 1 plectin 1 plectin 1, intermediate filament binding protein, 500kD