

Technical Data Sheet

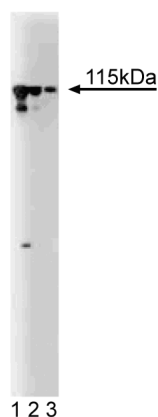
Purified Mouse Anti-CLIP-115**Product Information**

Material Number:	611143
Alternate Name:	Cytoplasmic Linker Protein-115
Size:	150 µg
Concentration:	250 µg/ml
Clone:	14/CLIP-115
Immunogen:	Rat CLIP-115 aa. 801-917
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Rat Tested in Development: Human, Mouse
Target MW:	115 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Microtubules, integral components of the cytoskeleton, are essential for establishment of cell polarity, membrane structure organization, and organelle translocation. Cell polarity is accomplished through the linkage of microtubules to other cytoskeletal proteins by microtubule associated proteins (MAPs). Likewise, the process of organelle translocation requires accessory proteins that link the organelles to microtubules. These proteins are known as CLIPs (cytoplasmic linker proteins) and belong to a novel family of microtubule binding proteins that are characterized by the presence of N-terminal microtubule binding (MTB) domains. CLIP-115 was discovered due to its high degree of homology to CLIP-170 (restin), which links endosomes to microtubules. Like CLIP-170, CLIP-115 contains two MTB domains and a long coiled-coil region. CLIP-115 has been reported to be found primarily in the brain where it associates with microtubules and the dendritic lamellar body (DLB). DLBs have been reported to be organelles that are present exclusively in the bulbous dendritic appendages of neurons. It is thought that CLIP-115 is a protein constituent of DLBs and is responsible for determining their structure and cytoplasmic location.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of CLIP-115 on a rat cerebrum lysate. Lane 1: 1:250, lane 2: 1: 500, lane 3: 1:1000 dilution of the mouse anti- CLIP-115 antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharming/en/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611463	Rat Cerebrum Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

De Zeeuw CI, Hoogenraad CC, Goedknegt E. CLIP-115, a novel brain-specific cytoplasmic linker protein, mediates the localization of dendritic lamellar bodies. *Neuron*. 1997; 19(6):1187-1199.(Biology)

Hoogenraad CC, Eussen BH, Langeveld A. The murine CYLN2 gene: genomic organization, chromosome localization, and comparison to the human gene that is located within the 7q11.23 Williams syndrome critical region. *Genomics*. 1998; 53(3):348-358.(Biology)