

**Vinculin Antibody [8B5]**  
**Catalog # ASC12051****Specification****Vinculin Antibody [8B5] - Product Information**

Application	WB
Other Accession	<a href="#">4507877</a> , <a href="#">NP_003364</a> , <a href="#">7414</a>
Reactivity	Human, Mouse, Rat, Rabbit, Chicken
Host	Mouse
Clonality	Monoclonal
Isotype	IgG
Application Notes	Vinculin antibody can be used for detection of Vinculin by Western blot at 0.5 - 1 µg/ml.

**Vinculin Antibody [8B5] - Additional Information****Other Names**

CMD1W, CMH15, Metavinculin, MVCL

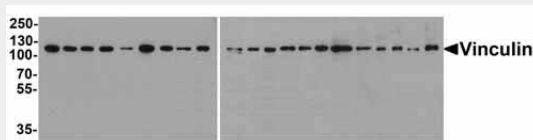
**Precautions**

Vinculin Antibody [8B5] is for research use only and not for use in diagnostic or therapeutic procedures.

**Vinculin Antibody [8B5] - Protein Information****Vinculin Antibody [8B5] - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Vinculin Antibody [8B5] - Images**

Western blot analysis of Vinculin in 293, A431, A549, HeLa, HepG2, K562, 3T3, Raji, U937 cell lysate and human kidney, human breast, mouse brain, mouse lung, mouse spleen, rat heart, rat lung, rat spleen, rat liver, rabbit spleen, rabbit brain and chicken spleen tissue lysate with Vinculin antibody at 1 µg/ml.

#### **Vinculin Antibody [8B5] - Background**

Vinculin is a cytoskeletal protein that plays an important role in the regulation of focal adhesions and embryonic development (1). Three structural vinculin domains include an amino-terminal head, a short flexible proline-rich region and a carboxy-terminal tail (2). Expression of vinculin were shown to be affected by the level of actin expression (2,3). Vinculin deficiencies are associated with a decrease in cell adhesion and an increase in cell motility, suggesting a possible role in metastatic growth (4). Defects in VCL are the cause of cardiomyopathy dilated type 1W (CMD1W) (5).

#### **Vinculin Antibody [8B5] - References**

Burridge K, Fath K, Kelly T, et al. Focal adhesions: transmembrane junctions between the extracellular matrix and the cytoskeleton. Annu. Rev. Cell Biol.1988; 4:487-525.;Gilmore AP, Jackson P, Waites GT, et al. Further characterization of the talin-binding site in the cytoskeletal protein vinculin. J. Cell Sci. 1992; 103:719-31.;Deakin NO, Ballestrem C, and Turner CE. Paxillin and Hic-5 interaction with vinculin is differentially regulated by Rac1 and RhoA. PLoS One 2012; 7:e37990.;Goldmann WH, Auernheimer V, Thievessen I, et al. Vinculin, cell mechanics and tumour cell invasion. Cell Biol. Int. 2013; Feb 1.