

## Vinculin Ab

[Images\(2\)](#)

Cat.#: DF6596	Concn.: ~1mg/ml	Mol.Wt.: 124kDa
Size:	Source: Rabbit	Clonality: Polyclonal

**Application:** WB 1:500-1:2000, IHC 1:50-1:200  
\*The optimal dilutions should be determined by the end user.

**Reactivity:** Human, Mouse, Rat

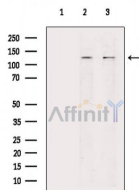
**Storage:** Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

**Purification:** The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

**Immunogen:** A synthesized peptide derived from human Vinculin, corresponding to a region within C-terminal amino acids.

**Uniprot:** P18206

**Description:** Vinculin is a cytoskeletal protein that plays an important role in the regulation of focal adhesions and embryonic development (1-4). Three structural vinculin domains include an amino-terminal head, a short, flexible proline-rich region and a carboxy-terminal tail. In the inactive state, the head and tail domains of vinculin interact to form a closed conformation. The open and active form of vinculin translocates to focal adhesions where it is thought to be involved in anchoring F-actin to the membrane and regulation of cell migration. Phospholipid binding to the tail domain and subsequent phosphorylation of vinculin at Ser1033 and Ser1045 by PKC-? and Tyr100 and Tyr1065 by Src kinases weakens the head-tail interaction (5,6).



Western blot analysis of extracts from various samples, using Vinculin Ab.  
Lane 1: 293 cells, blocked with antigen-specific peptides,  
Lane 2: 293 cells,  
Lane 3: HepG2 cells.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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procedures. Not for resale without express authorization.