

# Talin-1 (C45F1) Rabbit mAb

✓ 100 µl  
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #7094  
Swiss-Prot Acc. #Q9Y490

Applications	Species Cross-Reactivity*	Molecular Wt.	Isotype
W Endogenous	H, M, R, Mk, Hm	270 kDa	Rabbit IgG**

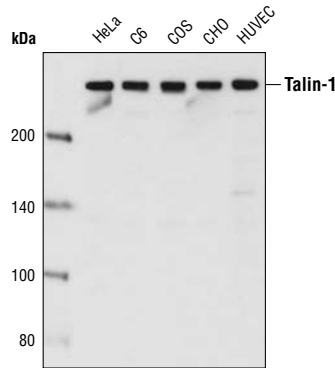
**Background:** Focal adhesions connect the cytoskeleton with the extracellular matrix (ECM), a complex structure of secreted macromolecules that surrounds mammalian organs and tissues. Integrins clustered on the extracellular side of focal adhesions signal from the ECM to intracellular protein complexes that signal to the actin cytoskeleton to regulate the tension needed for cell motility. Internal signals also converge on focal adhesions to regulate integrin affinity and avidity. Signaling through focal adhesions regulates cell adhesion, migration, proliferation, apoptosis and gene expression, and impacts cellular processes such as development, wound healing, immune response, invasion, metastasis and angiogenesis (reviewed in 1-3). Talin is a large, multidomain focal adhesion protein that interacts with the intracellular domains of integrins and other focal adhesion proteins. Talin is involved in the formation of focal adhesions and in linking focal adhesions to the actin cytoskeleton (4). The interaction between talin and integrins increases the affinity between integrin and insoluble and soluble ECM proteins (5,6).

**Specificity/Sensitivity:** Talin-1 (C45F1) Rabbit mAb recognizes endogenous levels of total Talin-1 protein.

**Source/Purification:** Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Talin-1.

**Background References:**

- (1) Burridge, K. et al. (1988) *Annu Rev Cell Biol* 4, 487-525.
- (2) Calderwood, D.A. et al. (2000) *J Biol Chem* 275, 22607-10.
- (3) French-Constant, C. and Colognato, H. (2004) *Trends Cell Biol* 14, 678-86.
- (4) Nayal, A. et al. (2004) *Curr Opin Cell Biol* 16, 94-8.
- (5) Tanentzapf, G. and Brown, N.H. (2006) *Nat Cell Biol* 8, 601-6.
- (6) Tadokoro, S. et al. (2003) *Science* 302, 103-6.



Western blot analysis of extracts from various cell types using Talin-1 (C45F1) Rabbit mAb.

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

Western blotting 1:1000

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.

**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**

**Applications Key:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide  
**Species Cross-Reactivity Key:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine  
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.