

Store at
-20C
#30960**Talin-1 (C45F1) Rabbit mAb (BSA and Azide Free)**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IHC-P	H M R Hm Mk	Endogenous	270	Rabbit IgG	#Q9Y490	7094

Product Usage Information

This product is the carrier free version of product #4021. All data were generated using the same antibody clone in the standard formulation which contains BSA and glycerol.

This formulation is ideal for use with technologies requiring specialized or custom antibody labeling, including fluorophores, metals, lanthanides, and oligonucleotides. It is not recommended for ChIP, ChIP-seq, CUT&RUN or CUT&Tag assays. If you require a carrier free formulation for chromatin profiling, please contact us. Optimal dilutions/concentrations should be determined by the end user.

BSA and Azide Free antibodies are quality control tested by size exclusion chromatography (SEC) to determine antibody integrity.

Formulation

Supplied in 1X PBS (10 mM Na₂HPO₄, 3 mM KCl, 2 mM KH₂PO₄, and 140 mM NaCl (pH 7.8)). BSA and Azide Free.

For standard formulation of this product see product #4021

Storage

Store at -20°C. *This product will freeze at -20°C so it is recommended to aliquot into single-use vials to avoid multiple freeze/thaw cycles.* A slight precipitate may be present and can be dissolved by gently vortexing. This will not interfere with antibody performance.

Specificity/Sensitivity

Talin-1 (C45F1) Rabbit mAb (BSA and Azide Free) recognizes endogenous levels of total Talin-1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala1772 of human Talin-1 protein.

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, which in turn 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 both insoluble and soluble ECM proteins (5,6).

Background References

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

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

W: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Hm:** Hamster **Mk:** Monkey

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