

Datasheet: MCA725G

Description:	MOUSE ANTI HUMAN TALIN
Specificity:	TALIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	TA205
Isotype:	IgG1
Quantity:	0.2 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	■			1/25 - 1/100
Immunohistology - Frozen	■			
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation	■			
Western Blotting	■			
Immunofluorescence	■			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) **Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

Target Species	Human
Species Cross Reactivity	Reacts with: Rabbit, Chicken N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Carrier Free	Yes
Approx. Protein	IgG concentration 1.0mg/ml

Concentrations

Immunogen Human platelet talin.

External Database Links

UniProt:

[Q9Y490](#)

[Related reagents](#)

[Q9Y4G6](#)

[Related reagents](#)

Entrez Gene:

[7094](#)

TLN1

[Related reagents](#)

[83660](#)

TLN2

[Related reagents](#)

Synonyms KIAA0320, KIAA1027, TLN

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the SP2/0 mouse myeloma cell line.

Specificity **Mouse anti Human Talin antibody, clone TA205** recognizes human talin, a ~225 kDa cytoskeletal protein. Mouse anti Human Talin antibody, clone TA205 may be used to stain adhesion plaques in fixed and permeabilized fibroblasts. Mouse anti Human Talin antibody, clone recognizes an epitope between residues 139 and 433.

Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells

Histology Positive Control Tissue Most tissues

Western Blotting Clone TA205 has also been reported to work in Western blotting.

References

1. Porter, R.M. *et al.* (1993) Monoclonal antibodies to cytoskeletal proteins: an immunohistochemical investigation of human colon cancer. [J Pathol. 170 \(4\): 435-40.](#)
2. Bolton, S.J. *et al.* (1997) Monoclonal antibodies recognizing the N- and C-terminal regions of talin disrupt actin stress fibers when microinjected into human fibroblasts. [Cell Motil Cytoskeleton. 36 \(4\): 363-76.](#)
3. Zheng, P.P. *et al.* (2007) Hela I-CaD is implicated in the migration of endothelial cells/endothelial progenitor cells in human neoplasms. [Cell Adh Migr. 1: 84-91.](#)
4. Vainionpää, N. *et al.* (2006) Laminin-10 and Lutheran blood group glycoproteins in adhesion of human endothelial cells. [Am J Physiol Cell Physiol. 290: C764-75.](#)
5. Filenius, S. (2003) Production of Fibronectin and Tenascin Isoforms and Their Role in the Adhesion of Human Immortalized Corneal Epithelial Cells [Invest Ophthalmol Vis Sci. 44: 3317-25.](#)
6. Calderwood, D.A. *et al.* (1999) The Talin head domain binds to integrin beta subunit cytoplasmic tails and regulates integrin activation. [J Biol Chem. 274: 28071-4.](#)
7. Cui, L. *et al.* (2009) c-Abl kinase is required for beta 2 integrin-mediated neutrophil adhesion. [J Immunol. 182: 3233-42.](#)
8. Koch, S. *et al.* (2013) Cathepsin D deficiency induces cytoskeletal changes and affects cell migration pathways in the brain. [Neurobiol Dis. 50: 107-19.](#)
9. Hasenson, S. *et al.* (2005) The immortalized human corneal epithelial cells adhere to laminin-10 by using Lutheran glycoproteins and integrin alpha3beta1. [Exp Eye Res. 81 \(4\): 415-21.](#)
10. Braga, V.M. *et al.* (1995) Calcium-induced changes in distribution and solubility of cadherins, integrins and their associated cytoplasmic proteins in human keratinocytes. [Cell Adhes Commun. 3 \(3\): 201-15.](#)

11. Valmu, L. *et al.* (1999) The cytoskeletal association of CD11/CD18 leukocyte integrins in phorbol ester-activated cells correlates with CD18 phosphorylation. [Eur J Immunol. 29 \(7\): 2107-18.](#)
12. Zhang C *et al.* (2013) c-Abl Kinase Is a Regulator of $\alpha\text{v}\beta 3$ Integrin Mediated Melanoma A375 Cell Migration. [PLoS One. 8 \(6\): e66108.](#)

Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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