

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 permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	<p>Reacts with: Rabbit, Chicken</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p>
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture

supernatant

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.09% Sodium Azide (NaN₃).

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0mg/ml

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

RRID AB_2233001

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 and has been successfully used in western blotting applications ([Bolton *et al.* 1997](#)).

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

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. 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.](#)
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. 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.](#)
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. 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.](#)
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. Zhang C *et al.* (2013) c-Abl Kinase Is a Regulator of $\alpha\beta 3$ Integrin Mediated Melanoma A375 Cell Migration. [PLoS One. 8 \(6\): e66108.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 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 (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

Recommended Negative Controls

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

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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