

Datasheet: MCA725G

BATCH NUMBER 168826

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 A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃).
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Human platelet talin.
External Database Links	<p>UniProt:</p> <p>Q9Y490 Related reagents</p> <p>Q9Y4G6 Related reagents</p> <p>Entrez Gene:</p> <p>7094 TLN1 Related reagents</p> <p>83660 TLN2 Related reagents</p>
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 10 ⁶ cells.
References	<ol style="list-style-type: none"> Porter, R.M. <i>et al.</i> (1993) Monoclonal antibodies to cytoskeletal proteins: an immunohistochemical investigation of human colon cancer. J Pathol. 170 (4): 435-40. Braga, V.M. <i>et al.</i> (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. Calderwood, D.A. <i>et al.</i> (1999) The Talin head domain binds to integrin beta subunit cytoplasmic tails and regulates integrin activation. J Biol Chem. 274: 28071-4. Valmu, L. <i>et al.</i> (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.

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. 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.](#)
8. 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.](#)
9. Cui, L. *et al.* (2009) c-Abl kinase is required for beta 2 integrin-mediated neutrophil adhesion. [J Immunol. 182: 3233-42.](#)
10. Koch, S. *et al.* (2013) Cathepsin D deficiency induces cytoskeletal changes and affects cell migration pathways in the brain. [Neurobiol Dis. 50: 107-19.](#)
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: <https://www.bio-rad-antibodies.com/SDS/MCA725G>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

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

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

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