

Technical Data Sheet

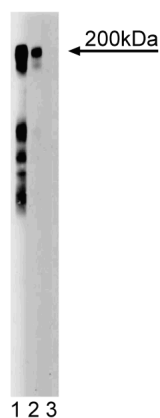
Purified Mouse Anti-Mouse Thrombospondin-2**Product Information**

Material Number:	611150
Alternate Name:	TSP-2
Size:	50 µg
Concentration:	250 µg/ml
Clone:	4/Thrombospondin-2
Immunogen:	Human Thrombospondin-2 aa. 173-295
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Mouse
Target MW:	200 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Cell adhesion interactions involve large extracellular glycoproteins such as fibronectin, laminins, and thrombospondins. The thrombospondins (TSPs), a small family of secreted glycoproteins, can be separated into two subfamilies based on structural similarity. TSP-1 and TSP-2 are homotrimers of monomeric 145 kDa chains, while TSP-3,4 and 5 are homopentamers of lower MW chains. TSP-1 and TSP-2 interact with several of the same cell surface receptors and have been termed matricellular proteins. However, the functional roles of TSP-1 and TSP-2 are poorly understood. Study of TSP-2 deficient mice has shed some light on the functional role of this protein. Although these mice appear normal, they in fact exhibit a wide variety of irregularities. These include abnormal collagen fiber development which results in fragile skin and highly flexible tendons and ligaments. They also exhibit increased cortical thickness in long bones and abnormal bleeding time. These results, together with the developmental expression pattern of TSP-2, suggest that it functions as a modulator of the cell surface properties of mesenchymal cells which, in turn, affects cell functions such as adhesion and migration.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of Thrombospondin-2 on a RSV-3T3 cell lysate. Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-mouse thrombospondin-2 antibody.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20° C.

BD Biosciences

www.bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit www.bdbiosciences.com/how_to_order/

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

BD, BD Logo and all other trademarks are the property of Becton, Dickinson and Company. ©2007 BD



Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Kyriakides TR, Zhu YH, Smith LT, et al. Mice that lack thrombospondin 2 display connective tissue abnormalities that are associated with disordered collagen fibrillogenesis, an increased vascular density, and a bleeding diathesis. *J Cell Biol.* 1998; 140(2):419-430.(Biology)

Kyriakides TR, Zhu YH, Yang Z, Bornstein P. The distribution of the matricellular protein thrombospondin 2 in tissues of embryonic and adult mice. *J Histochem Cytochem.* 1998; 46(9):1007-1015.(Biology)

LaBell TL, Milewicz DJ, Disteché CM, Byers PH. Thrombospondin II: partial cDNA sequence, chromosome location, and expression of a second member of the thrombospondin gene family in humans. *Genomics.* 1992; 12(3):421-429.(Biology)