Datasheet for ABIN968394

anti-Thrombospondin 2 antibody (AA 173-295)

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Overview

Quantity:	50 µg
Target:	Thrombospondin 2 (THBS2)
Binding Specificity:	AA 173-295
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Thrombospondin 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human Thrombospondin-2 aa. 173-295
Clone:	4-Thrombospondin
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Please refer to us 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.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	Thrombospondin 2 (THBS2)
Alternative Name:	Thrombospondin-2 (THBS2 Products)
Background:	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. Synonyms: TSP-2
Molecular Weight:	200 kDa

Application Details

Comment:	Related Products: ABIN967389
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

Handling

	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20° C.

Publications

Product cited in:

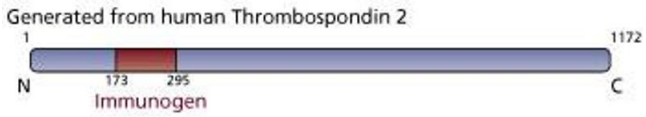
Kyriakides, Zhu, Smith, Bain, Yang, Lin, Danielson, Iozzo, LaMarca, McKinney, Ginns, Bornstein: " Mice that lack thrombospondin 2 display connective tissue abnormalities that are associated with disordered collagen fibrillogenesis, an increased vascular density, and a bleeding diathesis. " in: **The Journal of cell biology**, Vol. 140, Issue 2, pp. 419-30, (1998) (PubMed).

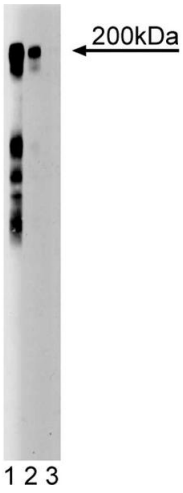
Kyriakides, Zhu, Yang, Bornstein: "The distribution of the matricellular protein thrombospondin 2 in tissues of embryonic and adult mice." in: **The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society**, Vol. 46, Issue 9, pp. 1007-15, (1998) (PubMed).

LaBell, Milewicz, Disteche, Byers: "Thrombospondin II: partial cDNA sequence, chromosome location, and expression of a second member of the thrombospondin gene family in humans." in: **Genomics**, Vol. 12, Issue 3, pp. 421-9, (1992) (PubMed).

Images

Image 1.





Western Blotting

Image 2.

Western Blotting

Image 3. 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.