

Human thrombospondin mouse monoclonal antibody (clone RUU-S P 1.77)



Catalog PODI-0088

Product specification sheet PS-PAb0088

Product description

Thrombospondin 1 (TSP-1) was first isolated from platelets (~120 kDa monomer) that had been stimulated with thrombin, and so was designated 'thrombin-sensitive protein'. Since its first recognition, functions for TSP-1 have been found in multiple biological processes including angiogenesis, apoptosis, activation of TGF-beta and immune regulation. TSP-1 is an antiangiogenic, inhibiting the proliferation and migration of endothelial cells by interactions with CD36 expressed on their surface of these cells, leading to the expression of FAS ligand, which activates its specific, ubiquitous receptor, Fas. This leads to the activation of caspases and apoptosis of the cell.

MoAb RUU-SP 1.77 was generated against activated platelets and recognized a major protein of 33 Kd and a minor 28-Kd protein, both under nonreduced and reduced conditions (1). RUU-SP 1.77 binds to the Nterminal proteolytic fragment GMP-33 of human thrombospondin and reacts only with reduced thrombospondin. Plasmin and trypsin digestion of thrombospondin yielded fragments of approximately the same size as GMP 33 that reacted with RUU-SP 1.77 after reduction (2)

Product type: Primary antibodies
Clone number: RUU-SP 1.77
Immunogen: Activated human platelets
Reacts with: Human
Tested applications: ELISA
Purity: Protein G affinity purified, >95%
Isotype: IgG1
Light chain type: Kappa
Storage buffer: PBS
Form: Liquid
Concentration: 0.5 mg/ml

Storage and stability

Store at 4 °C, short term (1-2 weeks). For long-term storage, aliquot and keep at or below -20° C. Avoid repeated freeze-thaw cycles

References

1. Metzelaar MJ, Heijnen HF, Sixma JJ, Nieuwenhuis HK. Identification of a 33-Kd protein associated with the alpha-granule membrane (GMP-33) that is expressed on the surface of activated platelets. *Blood*. 15;79(2):372-9. 1992.

2. Damas C, Vink T, Nieuwenhuis HK, Sixma JJ. The 33-kDa platelet alpha-granule membrane protein (GMP-33) is an N-terminal proteolytic fragment of thrombospondin. *Thromb Haemost*. 86(3):887-93. 2001.

PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

ImmunoPrecise Antibodies Europe BV products contain chemicals which may be harmful if misused. Due care should be exercised with all ImmunoPrecise Antibodies Europe BV products to prevent direct human contact. All products are intended For Research Use Only and ARE NOT ALLOWED FOR USE IN HUMANS. Each ImmunoPrecise Antibodies Europe BV product is shipped with documentation stating specifications and other technical information. ImmunoPrecise Antibodies Europe BV products are warranted to meet or exceed the stated specifications. ImmunoPrecise Antibodies Europe BV's sole obligation and the customer's sole remedy is limited to replacement of products free of charge in the event products fail to perform as warranted. ImmunoPrecise Antibodies Europe BV makes no other warranty of any kind whatsoever, and SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES OF ANY KIND OR NATURE WHATSOEVER, DIRECTLY OR INDIRECTLY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, AS TO THE SUITABILITY, PRODUCTIVITY, DURABILITY, FITNESS FOR A PARTICULAR PURPOSE OR USE, MERCHANTABILITY, CONDITION, OR ANY OTHER MATTER WITH RESPECT TO ImmunoPrecise Antibodies Europe BV PRODUCTS. In no event shall ImmunoPrecise Antibodies Europe BV be liable for claims for any other damages, whether direct, incidental, foreseeable, consequential, or special (including but not limited to loss of use, revenue or profit), whether based upon warranty, contract, tort (including negligence) or strict liability arising in connection with the sale or the failure of ImmunoPrecise Antibodies Europe BV products to perform in accordance with the stated specifications.