Anti-Thrombin Receptor
produced in rabbit, affinity isolated antibody

Catalog Number T5700

Product Description
Anti-Thrombin Receptor is produced in rabbit using as immunogen a synthetic peptide conjugated to KLH. The peptide corresponds to the N-terminal extracellular loop of human thrombin receptor. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-Thrombin Receptor specifically recognizes human thrombin receptor by immunohistochemistry with formalin-fixed, paraffin-embedded tissues. Not tested for other uses. The human receptor has 50% homology with mouse and rat genes. Other species reactivity has not been confirmed.

The Thrombin Receptor (TR) [also known as Protease Activated Receptor 1 (PAR1) and Coagulation Factor II Receptor (F2R)] is structurally related to other members of the 7-transmembrane receptor family and has been isolated from diverse cell types. It is intimately involved in the regulation of the thrombotic response. The prototypical thrombin receptor is the target for EPCR-dependent APC signaling, suggesting a role for this receptor cascade in protection from sepsis. The coagulation cascade and thrombin receptor modulate endothelial cell function in developing blood vessels and thrombin's actions on endothelial cells, rather than on platelets, mesenchymal cells, or fibrinogen, contribute to vascular development and hemostasis in the mouse embryo.

Thrombin Receptor expression has been documented in various blood cells, colon, kidney, liver, lung, skin, and blood vessels. ESTs have been isolated from adrenal, embryo, heart, heart/melanocyte/uterus, liver/spleen, pineal, skin, and blood vessels.

Reagent
Supplied as a solution of 1 mg/mL in phosphate buffered saline, pH 7.7, containing 0.1% sodium azide.

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability
For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile
Immunohistochemistry: a working concentration of 11-17 µg/mL is determined using human bone marrow megakaryocyte tissues.

Note: In order to obtain the best results in various techniques and preparations, we recommend determining optimal working concentration by titration.

References
3. Poirier, C., et al., The gene encoding the thrombin receptor (Cf2r) maps to mouse chromosome 13., Mammalian Genome, 7, 322 (1996).

This product is manufactured by MBL International Corporation

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