Product datasheet

Anti-Thrombomodulin antibody [Phx-01] ab24595

Overview

Product name: Anti-Thrombomodulin antibody [Phx-01]
Description: Mouse monoclonal [Phx-01] to Thrombomodulin
Host species: Mouse
Tested applications: Suitable for: IHC-Fr, WB, ELISA
Species reactivity: Reacts with: Human
Predicted to work with: Mammals
Immunogen: Recombinant full length protein (Human)
Epitope: This antibody reacts with an epitope within the EGF 5 domain.
General notes: ab24595 inhibits thrombin binding.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.03% Thimerosal (merthiolate)
Constituents: 0.09% Tris glycine, PBS
Purity: Affinity purified
Primary antibody notes: ab24595 inhibits thrombin binding.
Clonality: Monoclonal
Clone number: Phx-01
Isotype: IgG1

Applications

Our Abpromise guarantee covers the use of ab24595 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Thrombomodulin is a specific endothelial cell receptor that forms a 1:1 stoichiometric complex with thrombin. This complex is responsible for the conversion of protein C to the activated protein C (protein Ca). Once evolved, protein Ca scissions the activated cofactors of the coagulation mechanism, factor Va and factor VIIIa, and thereby reduces the amount of thrombin generated.

Endothelial cells are unique in synthesizing thrombomodulin.

Defects in THBD are the cause of thrombophilia due to thrombomodulin defect (THR-THBD) [MIM:188040]. A hemostatic disorder characterized by a tendency to thrombosis.

Defects in THBD are a cause of susceptibility to hemolytic uremic syndrome atypical type 6 (AHUS6) [MIM:612926]. An atypical form of hemolytic uremic syndrome. It is a complex genetic disease characterized by microangiopathic hemolytic anemia, thrombocytopenia, renal failure and absence of episodes of enterocolitis and diarrhea. In contrast to typical hemolytic uremic syndrome, atypical forms have a poorer prognosis, with higher death rates and frequent progression to end-stage renal disease. Note=Susceptibility to the development of atypical hemolytic uremic syndrome can be conferred by mutations in various components of or regulatory factors in the complement cascade system. Other genes may play a role in modifying the phenotype.

Contains 1 C-type lectin domain.
Contains 6 EGF-like domains.

N-glycosylated.
The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains.

Membrane.
Immunohistochemistry (Frozen sections) of human placenta using ab24595 at 1/100.

Western blot - Anti-Thrombomodulin antibody [Phx-01] (ab24595)

**All lanes**: Anti-Thrombomodulin antibody [Phx-01] (ab24595) at 1 µg/ml

**Lane 1**: HL-60 cell lysate

**Lane 2**: HeLa cell lysate

**Lane 3**: MCF-7 cell lysate

Lysates/proteins at 15 µg per lane.

**Secondary**

**All lanes**: HRP Goat anti-Mouse secondary antibody at 1/3000 dilution

**Predicted band size**: 60 kDa

---

**Please note**: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

---

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit [https://www.abcam.com/abpromise](https://www.abcam.com/abpromise) or contact our technical team.
Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors