

## ARG58012 anti-Thrombomodulin antibody [THBD/1591]

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [THBD/1591] recognizes Thrombomodulin
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	THBD/1591
Isotype	IgG2b, kappa
Target Name	Thrombomodulin
Species	Human
Immunogen	Recombinant partial protein corresponding to aa. 69-194 of Human Thrombomodulin.
Conjugation	Un-conjugated
Alternate Names	THRM; CD antigen CD141; THPH12; TM; Thrombomodulin; CD141; BDCA3; Fetomodulin; AHUS6

### Application Instructions

Application table	Application	Dilution
	IHC-P	2 - 5 µg/ml
	WB	1 - 2 µg/ml
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Tris buffer with 1 mM EDTA (pH 9.0) for 10-20 min, followed by cooling at RT for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA.
Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA
Concentration	0.2 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

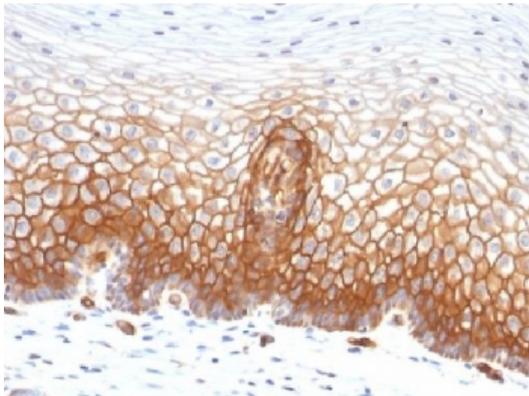
Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

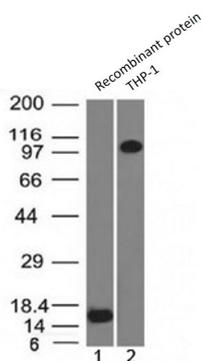
Gene Symbol	THBD
Gene Full Name	thrombomodulin
Background	The protein encoded by this intronless gene is an endothelial-specific type I membrane receptor that binds thrombin. This binding results in the activation of protein C, which degrades clotting factors Va and VIIIa and reduces the amount of thrombin generated. Mutations in this gene are a cause of thromboembolic disease, also known as inherited thrombophilia. [provided by RefSeq, Jul 2008]
Function	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. [UniProt]
Calculated Mw	60 kDa (unmodified); 100 kDa (glycosylated)
PTM	N-glycosylated.  The iron and 2-oxoglutarate dependent 3-hydroxylation of aspartate and asparagine is (R) stereospecific within EGF domains. [UniProt]

## Images



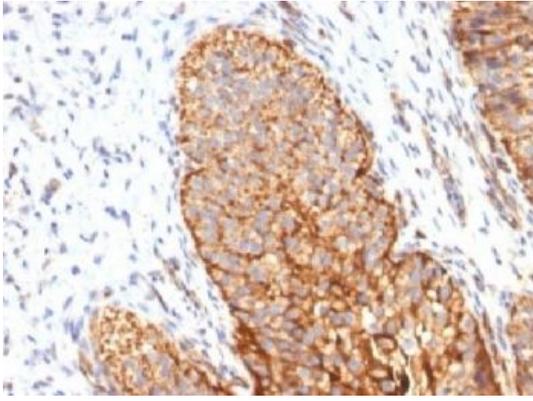
ARG58012 anti-Thrombomodulin antibody [THBD/1591] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human cervical carcinoma stained with ARG58012 anti-Thrombomodulin antibody [THBD/1591]. Antigen Retrieval: Boil tissue section in 10mM Tris buffer with 1mM EDTA (pH 9.0) for 10-20 min followed by cooling at RT for 20 min.



ARG58012 anti-Thrombomodulin antibody [THBD/1591] WB image

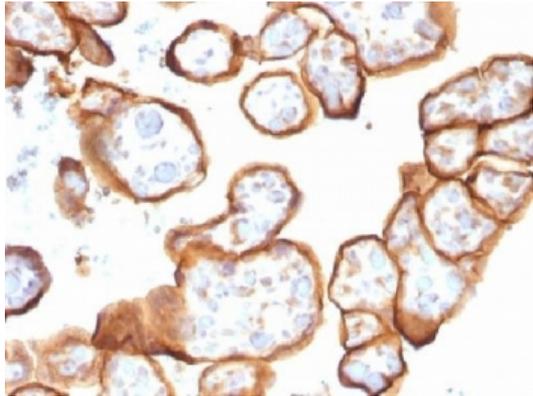
Western blot: 1) Recombinant partial protein and 2) THP-1 lysate stained with ARG58012 anti-Thrombomodulin antibody [THBD/1591].



ARG58012 anti-Thrombomodulin antibody [THBD/1591] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human bladder carcinoma stained with ARG58012 anti-Thrombomodulin antibody [THBD/1591]. Antigen Retrieval: Boil tissue section in 10mM Tris buffer with 1mM EDTA (pH 9.0) for 10-20 min followed by cooling at RT for 20 min.

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ARG58012 anti-Thrombomodulin antibody [THBD/1591] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human placenta stained with ARG58012 anti-Thrombomodulin antibody [THBD/1591]. Antigen Retrieval: Boil tissue section in 10mM Tris buffer with 1mM EDTA (pH 9.0) for 10-20 min followed by cooling at RT for 20 min.

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