

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	Endostatin, Human, clone 1837-46		
Catalog number	HM2188-20UG		
Lot number	-	Expiry date	-
Volume	200 µl	Amount	20 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	Concentration	100 µg/ml
Host Species	Mouse IgG2b	Conjugate	None
Endotoxin	N.A.	Purification	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes	•	•		•		•		•
No								
N.D.			•		•		•	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- IA: Antibody 1837-46 can be used as detector antibody.
- For staining of paraffin sections antigen retrieval (microwave irradiation (2x7 minutes) in citrate buffer) is advised.

General Information

Description Monoclonal antibody 1837-46 reacts with endostatin, a 20 kDa C-terminal fragment of collagen XVIII. Endostatin is able to evoke non-uniform response for proliferation, cell mount and migration of endothelial cells, with different endostatin binding characteristic, leads to the assumption that endostatin effect is strongly dependent from endothelial cell type. Furthermore endostatin inhibits angiogenesis and tumor growth in vivo by inducing apoptosis in endothelial cells. The local delivery of endostatin seems to specifically affect tumor-associated microvessels by reduction of the vessel density, diameter and functionality. Tumor cell migration and invasion was greatly reduced in the endostatin treated animals. Endostatin is non-toxic and does not induce acquired drug resistance and has therefore become a potent new therapy strategy in solid neoplasias. This therapy appear to have high potential not only for the treatment of gliomas, the most common brain tumours, but also of other tumours. The ability of endostatin to inhibit neoangiogenesis is mediated, at least in part, by Zn²⁺ binding and elastase processing. Widespread endostatin expression was found in elastic fibers in vessel walls and in some other basement membrane zones. Endostatin is released by neurons to accumulate in amyloid plaques in Alzheimer's disease.

- References**
- Deining, M et al; Accumulation of endostatin/collagenXVIII in brains of patients who died with cerebral malaria. J Neuroimmunol 2002, 131: 216
 - Deining, M et al; Aberrant neuronal and paracellular deposition of endostatin in brains of patients with alzheimer's disease. J Neurosci 2002, 22: 10621

Storage&stability Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.

Precautions For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Brenda Teunissen

Date
02/12/2020

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.