

## ARG56715 anti-Endostatin antibody

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes Endostatin
Tested Reactivity	Hu
Tested Application	ELISA, IHC-P, Neut, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Endostatin
Species	Human
Immunogen	E.coli derived Recombinant Human Endostatin. (MHSHRDFQPV LHLVALNSPL SGGMRGIRGA DFQCFQQARA VGLAGTFRAF LSSRLQDLYS IVRRADRAAV PIVNLKDELL FPSWEALFSG SEGPLKPGAR IFSFDGKDLV RHPTWPQKSV WHGSDPNGRR LTESYCETWR TEAPSATGQA SLLGGRLLG QSAASCHHAY IVLCIENSFM TASK)
Conjugation	Un-conjugated
Alternate Names	KS; KNO; KNO1; Collagen alpha-1(XVIII) chain

### Application Instructions

Application table	Application	Dilution
	ELISA	Sandwich: 0.5 - 2.0 µg/ml with ARG56824 as a detection antibody
	IHC-P	0.125 µg/ml - 0.250 µg/ml
	Neut	2.0 µg/ml (To yield [ND50] of the biological activity of Human Endostatin (0.5 µg/ml) )
	WB	0.1 - 0.2 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

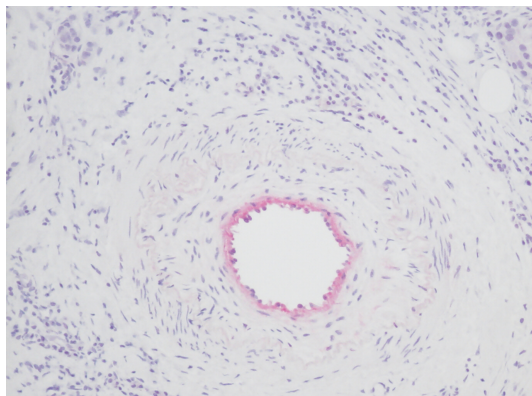
### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.2)
Concentration	1 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.

## Bioinformation

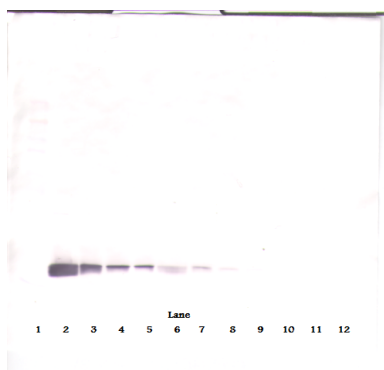
Database links	<a href="#">GeneID: 80781 Human</a> <a href="#">Swiss-port # P39060 Human</a>
Gene Symbol	COL18A1
Gene Full Name	collagen, type XVIII, alpha 1
Background	This gene encodes the alpha chain of type XVIII collagen. This collagen is one of the multiplexins, extracellular matrix proteins that contain multiple triple-helix domains (collagenous domains) interrupted by non-collagenous domains. A long isoform of the protein has an N-terminal domain that is homologous to the extracellular part of frizzled receptors. Proteolytic processing at several endogenous cleavage sites in the C-terminal domain results in production of endostatin, a potent antiangiogenic protein that is able to inhibit angiogenesis and tumor growth. Mutations in this gene are associated with Knobloch syndrome. The main features of this syndrome involve retinal abnormalities, so type XVIII collagen may play an important role in retinal structure and in neural tube closure. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]
Function	COL18A1 probably plays a major role in determining the retinal structure as well as in the closure of the neural tube.  Endostatin potently inhibits endothelial cell proliferation and angiogenesis. May inhibit angiogenesis by binding to the heparan sulfate proteoglycans involved in growth factor signaling. [UniProt]
Calculated Mw	178 kDa
PTM	Prolines at the third position of the tripeptide repeating unit (G-X-Y) of the triple-helical regions are hydroxylated.

## Images



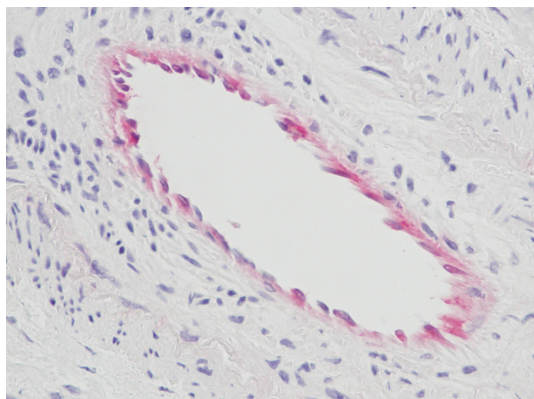
ARG56715 anti-Endostatin antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded sections of Human breast invasive ductal carcinoma. The recommended ARG56715 anti-Endostatin antibody concentration is 0.125 µg/ml-0.250 µg/ml with an overnight incubation at 4°C. An alkaline phosphatase-labeled polymer detection system was used with a red chromogen. Antigen Retrieval: Boil tissue section in Sodium Citrate buffer (pH 6.0) followed by cooling at RT for 20 min.



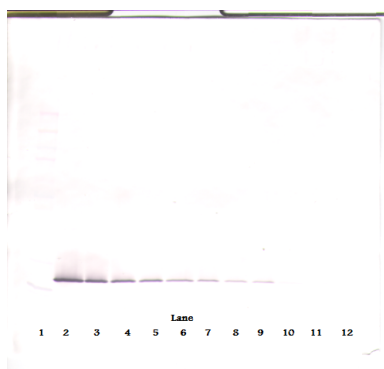
ARG56715 anti-Endostatin antibody WB image

Western blot: 250 - 0.24 ng of Human Endostatin stained with ARG56715 anti-Endostatin antibody, under reducing conditions.



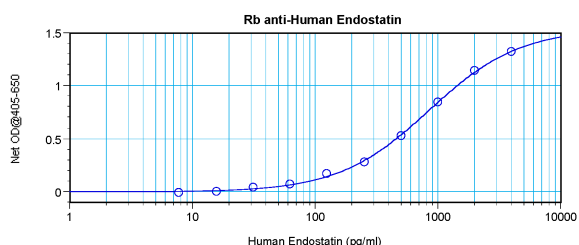
ARG56715 anti-Endostatin antibody IHC-P image

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ARG56715 anti-Endostatin antibody WB image

Western blot: 250 - 0.24 ng of Human Endostatin stained with ARG56715 anti-Endostatin antibody, under non-reducing conditions.



ARG56715 anti-Endostatin antibody standard curve image

Sandwich ELISA: ARG56715 anti-Endostatin antibody as a capture antibody at 0.5 - 2.0 µg/ml combined with ARG56824 anti-Endostatin antibody (Biotin) as a detection antibody. Results of a typical standard run with optical density.