

Product datasheet

Anti-Endostatin/COL18A1 antibody [KT58] ab114141

[1 Image](#)

Overview

Product name	Anti-Endostatin/COL18A1 antibody [KT58]
Description	Mouse monoclonal [KT58] to Endostatin/COL18A1
Host species	Mouse
Tested applications	Suitable for: Sandwich ELISA
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein corresponding to Human Endostatin/COL18A1.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.1% Sodium azide Constituent: 99% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	KT58
Isotype	IgG1

Applications

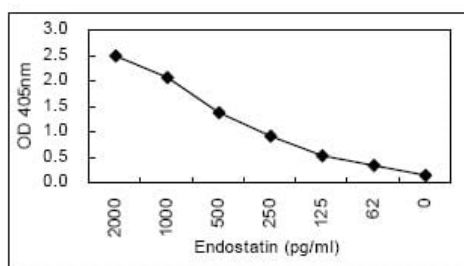
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab114141 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Sandwich ELISA		Use a concentration of 5 µg/ml. Can be paired for Sandwich ELISA with HRP Mouse monoclonal [KT60] to Endostatin/COL18A1 (ab106491) . For coating plates.

Target

Function	COLA18A 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.
Tissue specificity	Present in multiple organs with highest levels in liver, lung and kidney.
Involvement in disease	Defects in COL18A1 are a cause of Knobloch syndrome (KNO) [MIM:267750]. KNO is an autosomal recessive disorder defined by the occurrence of high myopia, vitreoretinal degeneration with retinal detachment, macular abnormalities and occipital encephalocele.
Sequence similarities	Belongs to the multiplexin collagen family. Contains 1 FZ (frizzled) domain. Contains 1 TSP N-terminal (TSPN) domain.
Post-translational modifications	Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Images



Sandwich ELISA - Anti-Endostatin/COL18A1 antibody [KT58] (ab114141)

ab114141, capturing Human Endostatin/COL18A1 in a Sandwich ELISA.
ab114141 was used at 5 µg/ml to coat the ELISA plates.
Detection utilised **ab106491**, which is an IgG2a monoclonal antibody conjugated to HRP.

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