

Datasheet: 4060-1060

Description:	RABBIT ANTI HUMAN ALPHA ELASTIN
Specificity:	ALPHA ELASTIN
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			
ELISA	▪			
Western Blotting			▪	
Immunofluorescence	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

(1) Fixation with 10% formalin is recommended. Brief digestion with hyaluronidase or trypsin aids antigen retrieval.

Target Species	Human
Species Cross Reactivity	Reacts with: Bovine, Tree shrew N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 5.0 mg/ml
Immunogen	Human alpha elastin.

**External Database
Links**

UniProt:

[P15502](#) [Related reagents](#)

Entrez Gene:

[2006](#) ELN [Related reagents](#)

Specificity

Rabbit anti Human Alpha Elastin antibody recognizes alpha and beta human elastin, also known as Tropoelastin. Elastin is a major structural protein expressed within the outer myometrial smooth muscle and throughout the arteriolar tree of uterus. It is also expressed in the large arteries, lung and skin. This antibody is also known to cross react with bovine alpha elastin.

ELISA

In a simple ELISA, with 1 µg of native antigen coated per well, the 50% OD was observed at an antibody dilution of 1/8K. Under the same conditions, the end point was observed at 1/200K.

References

1. Yu, J. *et al.* (2010) The elastic network of articular cartilage: an immunohistochemical study of elastin fibres and microfibrils. [J Anat. 216: 533-41.](#)
2. Grant, T.M. *et al.* (2013) Elastic fibres are broadly distributed in tendon and highly localized around tenocytes. [J Anat. 222: 573-9.](#)
3. Albon, J. *et al.* (2007) Connective tissue structure of the tree shrew optic nerve and associated ageing changes. [Invest Ophthalmol Vis Sci. 48: 2134-44.](#)
4. Zorin, V. *et al.* (2017) Clinical-instrumental and morphological evaluation of the effect of autologous dermal fibroblasts administration. [J Tissue Eng Regen Med. 11 \(3\): 778-786.](#)
5. Zorin, V.L. *et al.* (2014) Octacalcium phosphate ceramics combined with gingiva-derived stromal cells for engineered functional bone grafts. [Biomed Mater. 9: 055005.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted.
Avoid repeated freezing and thawing as this may denature the antibody.
Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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