

Product datasheet

Anti-alpha smooth muscle Actin antibody ab112022

2 Abreviews 3 Images

Overview

Product name	Anti-alpha smooth muscle Actin antibody
Description	Goat polyclonal to alpha smooth muscle Actin
Host species	Goat
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Dog 
Immunogen	Synthetic peptide: EEEDSTALVC , corresponding to N terminal amino acids 3-12 of Human alpha smooth muscle Actin. Run BLAST with Run BLAST with
Positive control	Human Colon, smooth muscle and Human Vessel tissues; Human Duodenum lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab112022** 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
WB		Use a concentration of 0.3 - 1 µg/ml. Predicted molecular weight: 42 kDa.
IHC-P		Use a concentration of 2.5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

Involvement in disease

Defects in ACTA2 are the cause of aortic aneurysm familial thoracic type 6 (AAT6) [MIM:611788]. AATs are characterized by permanent dilation of the thoracic aorta usually due to degenerative changes in the aortic wall. They are primarily associated with a characteristic histologic appearance known as 'medial necrosis' or 'Erdheim cystic medial necrosis' in which there is degeneration and fragmentation of elastic fibers, loss of smooth muscle cells, and an accumulation of basophilic ground substance.

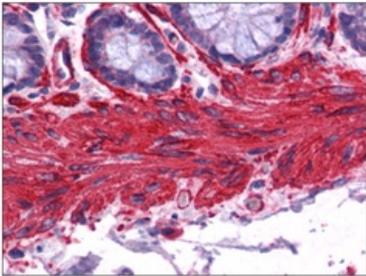
Sequence similarities

Belongs to the actin family.

Cellular localization

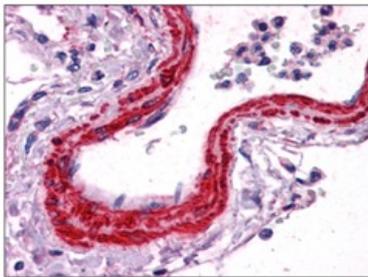
Cytoplasm > cytoskeleton.

Images



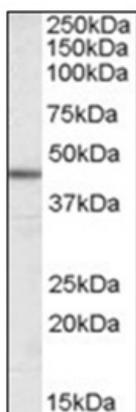
Immunohistochemical expression of alpha smooth muscle Actin in Formalin-Fixed, Paraffin-Embedded Human Colon, smooth muscle using ab112022 at 2.5 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-alpha smooth muscle Actin antibody (ab112022)



Immunohistochemical expression of alpha smooth muscle Actin in Formalin-Fixed, Paraffin-Embedded Human vessel using ab112022 at 2.5 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-alpha smooth muscle Actin antibody (ab112022)



Anti-alpha smooth muscle Actin antibody (ab112022) at 0.1 µg/ml + Human Duodenum lysate at 35 µg

Developed using the ECL technique.

Predicted band size: 42 kDa

Western blot - Anti-alpha smooth muscle Actin antibody (ab112022)

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