

## Anti-Smoothelin [R4A] Bulk Size Ab03355-23.0-BT

Isotype and Format: Rabbit IgG, Kappa

**Clone Number: R4A** 

Alternative Name(s) of Target:

**UniProt Accession Number of Target Protein: P53814** 

Published Application(s): ICC, WB, IHC

Published Species Reactivity: canine, Chicken, Feline, Monkey, Swine, Human

Immunogen: The original antibody was generated by immunizing a BALB/c mouse with a cytoskeletal

extract of chicken gizzard.

**Specificity:** The antibody reacts with the 59 kDa and 100 kDa protein, corresponding to smoothelin A and B, respectively, which are exclusively found in smooth muscle cells. Smoothelin is a constituent of the smooth muscle cell (SMC) cytoskeleton. Antibodies directed to smoothelin are useful tools to monitor SMC differentiation.

**Application Notes:** The antibody detected Smoothelin by western blot analysis. This antibody was used for immunohistochemical screening of different species and tissues (i.e., intestinal smooth muscle tissue of human, goat, Xenopus laevis, and chicken oesophagus, human large intestine, stomach, uterus, and prostate, smooth muscle cells) for the presence of smoothelin. COS7 cells transfected with the full-size human smoothelin cDNA showed filamentous structures that were reactive with the antibody in immunofluorescence analysis (van der Loop et al., 1996; PMID: 8707825). This antibody was used for immunohistochemistry on normal smooth muscle (Coco et al., 2009; PMID: 19950405).

**Antibody First Published in:** van der Loop et al. Smoothelin, a novel cytoskeletal protein specific for smooth muscle cells J Cell Biol. 1996 Jul;134(2):401-11. PMID:8707825

**Note on publication:** The original paper describes the generation and characterization of the antibody.

## **Product Form**

**Size:** 1 mg Purified antibody in bulk size. **Purification:** Protein A affinity purified

Supplied In: PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommed this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** 

1 ma/ml	
1 mg/ml.  Important note - This product is for re	esearch use only. It is not intended for use in therapeutic or diagnostic
procedures for humans or animals.	escarem ase only. It is not interlace for ase in therapeatic of alagnostic
© 2024 Absolute Antibody	https://absoluteantibody.com/product/anti-smoothelin-r4a/Ab03355-