Anti-Hu SMA(AKYP0081)-BX013 for PhenoCode Discovery

ANTIBODY CATALOG # 240068

Kit Catalog Numbers

Included as a component in antibody kits:

PhenoCode™ Discovery Tissue Architecture Human Protein Module

4450049: Anti-Hu SMA(AKYP0081)-BX013—Alexa Fluor™ 750

Quantity

Up to 25 tests

Target & Clone Information

Synonym/s	Smooth muscle actin, ACTA2, alpha-actin, alpha-actin-2, aortic smooth muscle, α-SMA, SMactin, alpha-SM-actin, ASMA, AAT6, ACTSA, ACTVS, GIG46, MYMY5
Cell Type Expression	Smooth muscle cells and myoepithelial cells
Expected Localization	Intracellular, Actin filaments
Supplier-Verified Reactivity	Human, Rat
Supplier-Reported Reactivity	Mouse, Sheep, Rabbit, Cow, Pig, Mammals, Baboon
Host Species/Isotype	Mouse IgG2a
Clonality	Monoclonal

PhenoCycler Workflow

RECOMMENDED STARTING TITRATIONS AND EXPOSURE TIMES

Tissue Type	Sample Type	Reporter Dye	Recommended Titration	Recommended Exposure Time* (ms)
Hu FFPE	Tonsil	Alexa Fluor 750	1:200	80
Hu FFPE	Lung cancer	Alexa Fluor 750	1:200	80

*Recommendation is for PhenoCycler®-Fusion only.

Antigen retrieval conditions: AR9 (Akoya, Part# AR900250ML)

Notes: N/A

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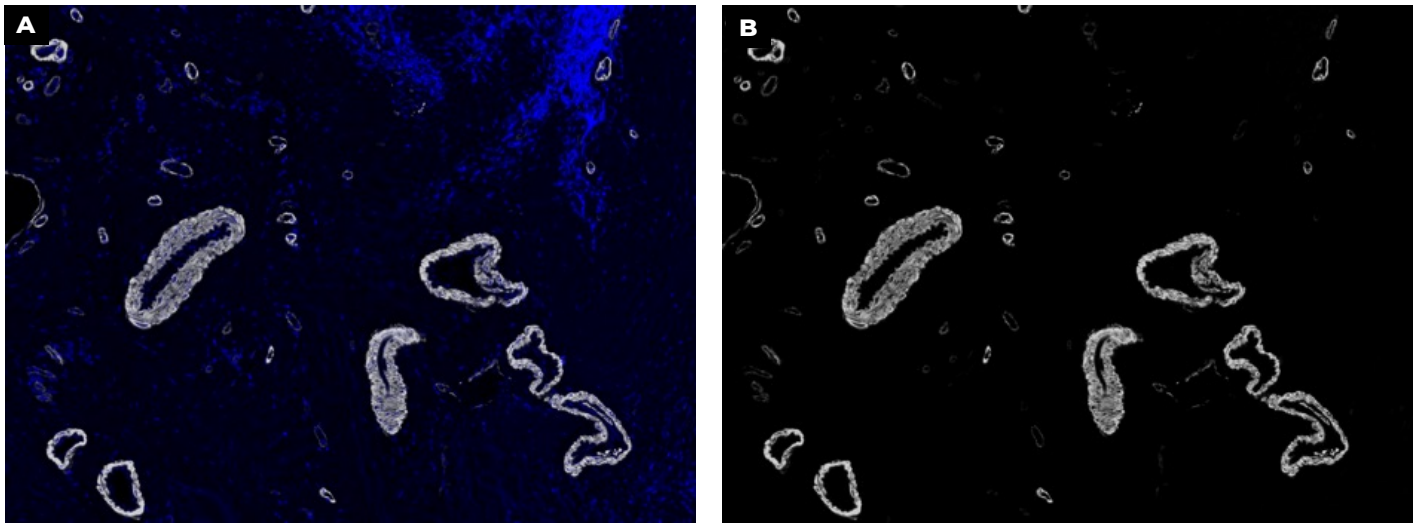

Figure 1. Human FFPE tonsil section stained with SMA PhenoCode Antibody and nuclear stain. An FFPE tonsil tissue section was stained with PhenoCode antibody Anti-Hu SMA(AKYP0081)-BX013 (detected using Alexa Fluor 750 reporter). Imaging performed using a 20X objective using the PhenoCycler-Fusion system. Representative imaging regions showing SMA (white) and nuclear stain (blue). Antigen retrieval was performed using AR9 (Akoya, Part# AR900250ML). SMA was diluted 1:200. **A.** Zoomed in region showing SMA (white) and nuclear stain (blue). **B.** Zoomed in region showing SMA (white) only.

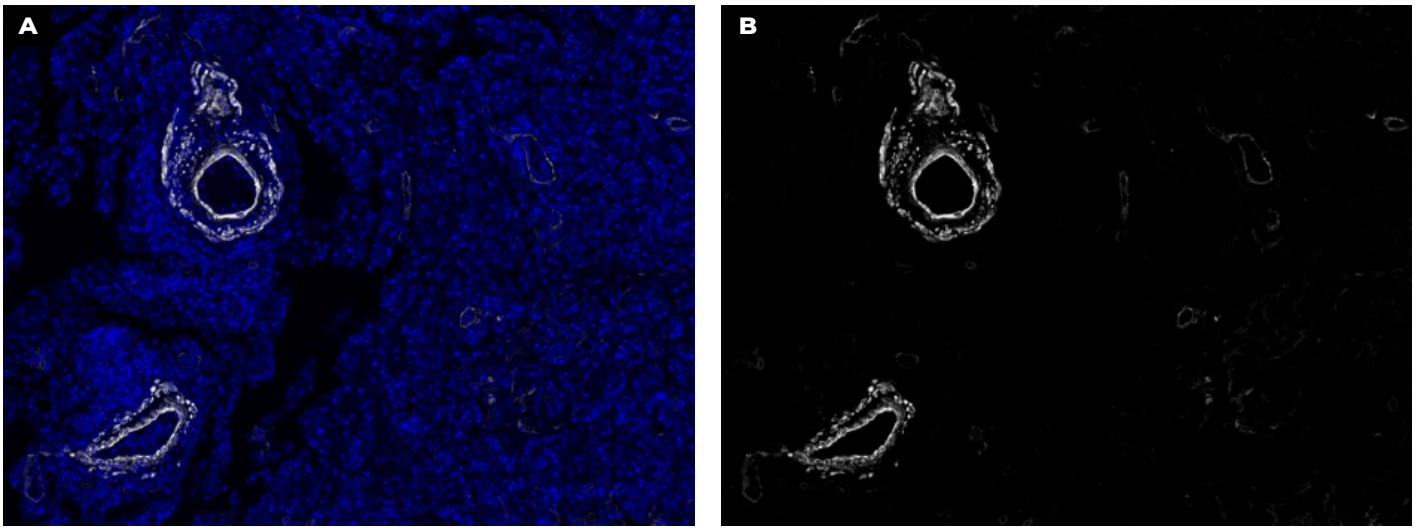

Figure 2. Human FFPE lung cancer section stained with SMA PhenoCode Antibody and nuclear stain. An FFPE lung cancer tissue section was stained with PhenoCode antibody Anti-Hu SMA(AKYP0081)-BX013 (detected using Alexa Fluor 750 reporter). Imaging performed using a 20X objective using the PhenoCycler-Fusion system. Representative imaging regions showing SMA (white) and nuclear stain (blue). Antigen retrieval was performed using AR9 (Akoya, Part# AR900250ML). SMA was diluted 1:200. **A.** Zoomed in region showing SMA (white) and nuclear stain (blue). **B.** Zoomed in region showing SMA (white) only.

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