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

CATALOG # S6501013

Components	
240068	Anti-Hu SMA (AKYP0081)-BX013
PCSD013	HRP-HX013 PhenoCode™ Signature Detector

Quantity
Up to 20 Slides

Storage & Stability

Component #	Component Description	Storage Temp	Storage Notes	Stability
240068	Anti-Hu SMA (AKYP0081)-BX013	4°C	Do Not Freeze	Refer to expiration date on antibody tube
PCSD013	HRP-HX013 PhenoCode Signature Detector	-20°C	Do Not Exceed 5 Freeze-Thaw Cycles	Refer to expiration date on PhenoCode Signature Detector tube

Target & Clone Information

Alternative Name/s	Actin, Aortic smooth muscle, Alpha-smooth muscle actin, ACTA2, Alpha-actin-2, α-SMA
Cell Type Expression	Vascular smooth muscle cells, Myofibroblasts, Myoepithelial cells
Expected Localization	Intracellular, Actin filaments
Reactivity	Human, Mouse, Rat
Host Species/Isotype	Mouse IgG2a
Clonality	Monoclonal

PhenoCode Signature Workflow

Tissue Type	Sample Types Used for Testing	Recommended Starting Dilution	Opal® Dye
Human FFPE	Tonsil, Lung Cancer	1:800	Opal 520

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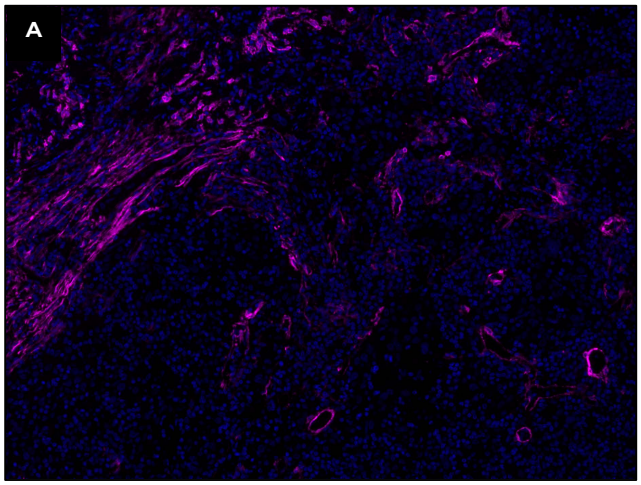
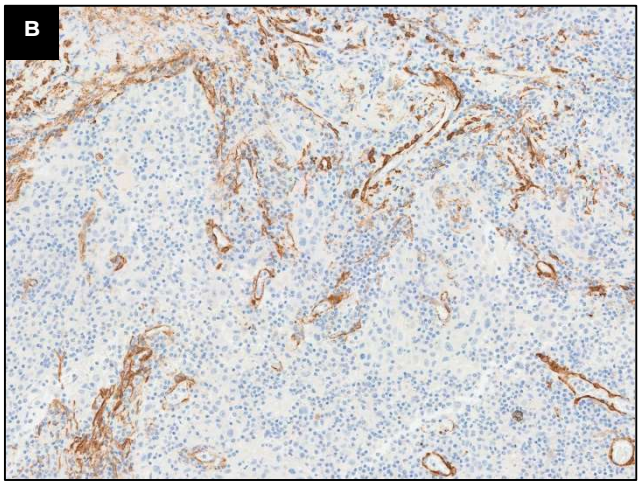
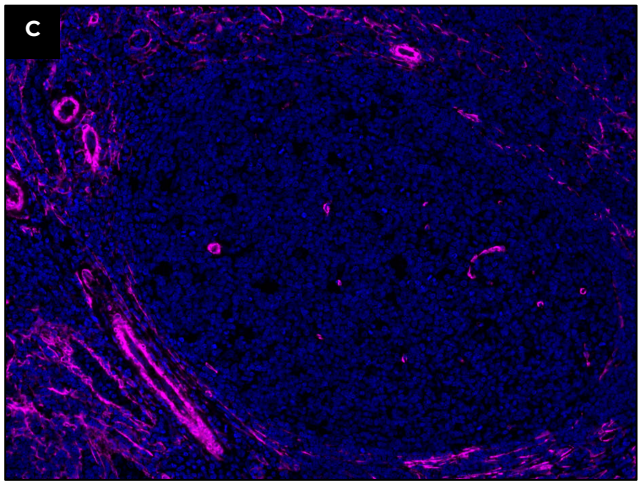
SMA is an intracellular protein primarily expressed in vascular smooth muscle cells and contributes to mechanical tension. It is also a marker for myofibroblasts which are frequently associated with wound healing and extracellular matrix remodeling. The following images compare the performance of anti-SMA as a barcoded primary antibody and as an unconjugated primary antibody. Comparisons are provided in human FFPE lung cancer and human FFPE tonsil tissues.

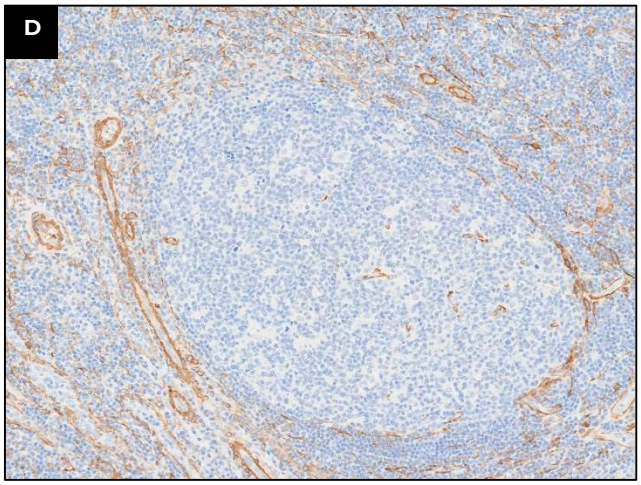
Human FFPE Lung Cancer





Human FFPE Tonsil





A. Barcoded anti-SMA paired with Opal 520 was used in the PhenoCode Signature T Cell Status Human Protein Panel on lung cancer tissue. **B.** The image on the right shows human FFPE lung cancer tissue stained with DAB using unconjugated anti-SMA antibody. Each assay was performed using the same tissue block; sections were chosen to be as close as possible. **C and D.** Identical assays were run on human tonsil tissue and images are displayed in the same manner as sections A and B.