Anti-α-Smooth Muscle Actin

Catalog No. 61001
Quantity 50 µg

Source mouse monoclonal IgG2a
Clone 1A4/ASM-1
Immunogen synthetic N-terminus decapeptide of α-smooth-muscle isoform of actin
Reactivity human, bovine, equine, rat, mouse, chicken
Purification protein A affinity chromatography
Conjugate unconjugated
Formulation lyophilized; reconstitute in 1 ml dist. water (final solution contains 0.09 % NaN3, 0.5% BSA in PBS buffer, pH 7.4)
Storage short term at 2–8 °C; long term storage in aliquots at -20 °C; avoid freeze/thaw cycles

Tested Applications
IF assay dependent
IHC (FFPE) dilute at least 1:100 (protease treatment and/or microwave treatment recommended)
IHC (frozen) dilute at least 1:100
WB assay dependent

Background
1A4/ASM-1 represents an excellent marker for myogenic soft tissue tumors and smooth muscle differentiation. Polypeptide reacting: specific for alpha-smooth-muscle isoform of actin (Mr 43,000). Tumors specifically detected: leiomyosarcoma, leiomyoma, certain stromal cells surrounding infiltrating ductal carcinoma of breast.
Tested cultured cell lines: Stress fibers of smooth muscle-derived cells and some smooth muscle subtype fibroblasts

References


