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36-1655: Monoclonal Antibody to Actin, Smooth Muscle (Leiomyosarcoma Marker)(Clone : ACTA2/791)

Clonality: Monoclonal **Clone Name:** ACTA2/791 Application: FACS, IF, IHC Reactivity: Human, Rat Gene: ACTA2 Gene ID: 59 **Uniprot ID:** P62736 Format: Purified

Alternative Name: ACTA2,ACTSA,ACTVS,GIG46

Isotype: Mouse IgG2a, kappa

Immunogen Information: Recombinant full-length human ACTA2 protein

Description

Actin is a major component of the cytoskeleton and is present in most cell types. It is highly specific to actin from smooth muscles. This MAb does not stain cardiac or skeletal muscle; however, it does stain myofibroblasts and myoepithelial cells. This antibody could be used together with anti-muscle specific actin and myogenin in making a diagnosis of smooth muscle and skeletal muscle tumors. In most cases of rhabdomyosarcoma, this antibody yields negative results whereas anti-muscle specific actin and myogenin are positive. Leiomyosarcomas are positive only with anti-muscle specific actin and anti-smooth muscle actin and are negative with anti-myogenin.

Product Info

Amount: 100 μg

Purification : Affinity Chromatography

Content: 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

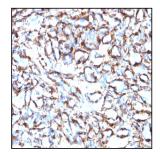
toxic.

Storage condition : Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (0.25-0.5ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

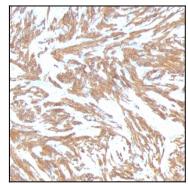


Formalin-fixed, paraffin-embedded human Angiosarcoma stained with Smooth Muscle Actin Monoclonal Antibody (ACTA2/791).

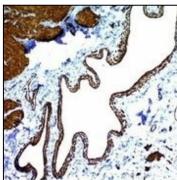


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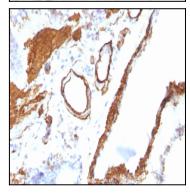
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Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Smooth Muscle Actin Monoclonal Antibody (ACTA2/791).



Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Smooth Muscle Actin Monoclonal Antibody (ACTA2/791).



Formalin-fixed, paraffin-embedded Rat Lung stained with Smooth Muscle Actin Monoclonal Antibody (ACTA2/791).